

NUMBERS & ODDITIES
a.k.a. the Spooks Newsletter
Edition #147, December 2009

EDITOR: Ary Boender email: ary@luna.nl

Check for previous newsletters, info, sound samples and databases also

NUMBERS & ODDITIES	http://www.ary.luna.nl http://www.numbersoddities.nl/index.htm
SPY NUMBERS ONLINE DATABASE	http://www.spynumbers.com/numbersDB/
UTILITY DXERS FORUM (UDXF)	http://www.udxf.nl

You're looking at the last issue of Numbers & Oddities in 2009. As usual there are a lot of logs in this issue including many Russian military logs. Further you'll find the annual Clandestine Activity Survey.

I have also tried to compile the story so far of the former Soviet, now Russian diplomatic and intelligence stations, Enigma codes M42 and X06. No doubt that the story is not complete and you may find errors. Corrections and additional info is greatly appreciated.

I have also updated the "Chinese Numbers Update" in N&O 145. Several minor errors have been repaired.

I'd like to thank all the people who supplied information and logs in 2009 and I hope that you will continue that in 2010. Without your input N&O would not exist.

* I WISH ALL THE MEMBERS OF UDXF, SPOOKS, THE BENELUX DX-CLUB, AND ALL OTHER *
* READERS OF "NUMBERS & ODDITIES" A HEALTHY AND PROSPEROUS NEW YEAR !!! *

* VOICE STATIONS *

::: E03a

Eddy reports a silence in all the time slots and on all known Cherry Ripe frequencies since mid December. It seems that Cherry Ripe has followed its sister, the Lincolnshire Poacher, down the drain. We'll miss her :-)

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

I received a note from Igor in which he mentions that he has heard the Chinese Robot in October on 3837, 4006 and 5384 kHz.

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \end{array} \begin{array}{c} \cdot \\ \cdot \\ \cdot \end{array} \text{MX}$$

Channel markers

R - 4325.9-4326.1, 5465.9-5466.1 kHz. Not stable.

Unid T or E - 4530 kHz. MX related???

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

Tom checks in with a M08a intercept on 27 Dec at 0500 UTC on 5810 kHz. The transmission started with an empty carrier for a few minutes, then M08a with callup "12345 67890" for several minutes; then the normal callup & messages came up. Another sked followed at 0600 UTC but without the 12345 67890 callup.

<<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

Trond intercepted the following M12 transmission:

7741 kHz, 1310 UTC, 5-12:

787 787 787 1 787 787 787 1 787 787 787 1 787 787 787 1
787 787 787 1 787 787 787 1 787 787 787 1 787 787 787 1
657 165 657 165

::: M89

V QPZM QPZM PQZM de WOXN WOXN on 4523 kHz

★ VARIOUS MODES ★

::: M42 & X06

6835.5	2043	30-11	Russian Gov/Intel. "VNWGZYDLU VCRMWSDABHZJ". Mode: CROWD36
12157.0	0858	01-12	Mazielka. Sequence: 165423
14812.0	0935	01-12	Mazielka. Sequence: 246531 on for 43sec
16025.0	1000	01-12	Mazielka. Sequence: 156234
14871.0	1013	01-12	Mazielka. Sequence: 156234
12155.0	0729	02-12	Russian Gov/Intel. "RNCTLHPOGMV DCWOX". Mode: CROWD36
9288.0	0830	02-12	Mazielka. Sequence: 356412
12152.0	0857	02-12	Mazielka. Sequence: 432516
18183.0	0803	02-12	Russian Gov/Intel. Mode: CROWD36
18050.0	0938	02-12	Russian Gov/Intel. Mode: CROWD36
15799.5	0656	03-12	Russian Gov/Intel. Mode: CROWD36
13488.0	0819	03-12	Mazielka. Sequence: 162543 38sec long
14837.5	0737	04-12	Russian Gov. Preamble starting with "11177". Mode: CROWD36
16200.8	0742	04-12	Russian Gov/Intel. "RNCTLHPOGMV DCWOX". Mode: CROWD36
14824.0	0811	04-12	Mazielka. Sequence: 625413
10516.5	0857	04-12	Russian Gov/Intel. "RNCTLHPOGMV DCWOX". Mode: CROWD36
14400.5	0938	04-12	Russian Gov/Intel. Mode: CROWD36
12213.0	0957	04-12	Mazielka. Sequence: 361245 //12215 kHz
12215.0	0957	04-12	Mazielka. Sequence: 361245 //12123 kHz
5866.5	1003	04-12	Russian Gov/Intel. "RNCTLHPOGMV DWOX". Mode: CROWD36
7923.5	1645	07-12	Russian Gov. "11177 10097 16256 812". Mode: CROWD36
6801.5	1651	07-12	Russian Gov/Intel. Mode: CROWD36
15656.5	0755	08-12	Russian Gov/Intel. Mode: CROWD36
14861.0	0842	08-12	Mazielka. Sequence: 542136
16025.0	0918	08-12	Mazielka. Sequence: 156234
5408.0	1605	08-12	Russian Gov/Intel. Repeating letter groups. Mode: Baudot 186.4/500
13419.0	0905	09-12	Mazielka. Sequence: 465132
16276.0	0910	09-12	Russian Gov/Intel. Mode: CROWD36
16116.0	0944	09-12	Mazielka. Sequence: 134265
14445.0	1000	09-12	Russian Gov/Intel. Mode: CROWD36
12100.0	1213	09-12	Mazielka. Sequence: 123456
8107.5	0751	10-12	Russian Gov/Intel. "RNCTLIPOGMV DYWOX" Mode: CROWD36
6965.5	0758	10-12	Russian Gov/Intel. "VNWGZXYDLU VCXRMWSDABHZJ" Mode: CROWD36
16350.0	0848	10-12	Russian Gov/Intel. Traffic + op-chat in CW "OK OK AS K K". Mode: Baudot 75/500
10193.0	0945	10-12	Mazielka. Sequence: 164532

- Enigma codes for alleged spy stations: E06, E07, E17, E20, G06, G07, G17, G19, S06, S07, V06, V07, M12, M14, S25, XP, XPA, XPH, XPL, XPM (XP.. are polytone stations)
- Enigma codes for diplomatic stations: M42, X06.
- Enigma codes for military stations: M18, M21(PV0), M32, M41(PV0), MX (beacons and morse channel markers), S13, S14, S28(Buzzer), S30(Pip), S32(Squeaky Wheel).

The RTTY/digital network has been monitored by a large number of dxers since the early 1980's and even before that when they were using Morse only. When we first discovered the network we didn't know who they were, so we nicknamed them "the Brotherhood". A couple of years and a lot of work later we knew that this is in fact a Soviet, now Russian, governmental network.

In the 1990's a new name was used by the dxers. According to several sources the main user of the net was SOUD, so this name replaced "the Brotherhood".

Later FAPSI has been used. FAPSI is responsible for maintaining both government and presidential information system and telecommunication lines. It controls Russia's physical communications systems, including government telephone lines, high-frequency communications, and cryptography services. FAPSI initially maintained communications lines for the Russian President and security services. Basically they were and still are responsible for the actual transmissions. One of the other names that was used after FAPSI is DOSC, Department of State Communications, a name that is more appropriate than the ones used before that. To simplify it even more we now use "Russian Government/Intelligence" or just "Russian Gov.".

The first encounters in the USA with the "Brotherhood" stations were in the late 1970's when they still used high speed CW (ca 32 WPM). Most of the early CW stations (PSN, BPA, SPK, WNY, YBU) were still active in the late 1990's. "ROL" however disappeared completely. In the mid 1980's the RTTY transmissions started. The speed used was 50bd. Messages to YBU were the most common ones in those days. Also messages to PSN were monitored. The callup was slightly different from the system that is used nowadays:

```
VVV PSN PSN PSN 2/245 VVV PSN PSN 2/245
NW NW
NR 271 GR 135
+ 5L or 5F groups
```

Then in the mid 1980's they changed to the 5 group preamble that they are still using today. But the original link designators were different back then.

The WFO/MIG link was the only known 2-way link in the Americas. The station sending WFO was definitely the Cuban end. The other end has been pin pointed in the New York City area, probably the Russian UN delegation.

In the late 1980's an European network of RTTY stations popped up, similar to the network that was active in the America's.

The master station in Europe was "RCF". Several frequency guides listed "RCF" as Ministry for Foreign Affairs in Moscow. After the disintegration of the USSR, the "RCF" callsign disappeared. The new master station was as powerful as "RCF" was and one thing is for sure: this station was located in or very near Moscow as well. The station was DFed many times and every time Moscow appeared to be the source of the signal. Whether the master station or "RCF" really was MFA Moscow is not 100% sure but it definitely was a diplo station and the net a diplo network. Whenever something hot was happening in the 1990's, like the Chechenya actions, the stations in this net were making overtime, even on Sundays, while there were normally no transmissions on Sundays. The only station that was often heard on Sundays was "BFR", which may indicate that it was possibly located in an Islamic country.

The master station still transmits online and offline encrypted messages to the other stations. There are fixed schedules for a couple of stations while others are reported less frequently. During the time that "RCF" was still in place they used a traffic list system. In the 1990's the traffic list system was replaced and each link now had one or two fixed schedules on an assigned frequency pair. The auto-broadcasts to amongst others KUL, VKX, RAU and RKD were probably just circulars or routine traffic sent to the specific networks. They were transmitted blind and therefore repeated throughout the day on a larger number of frequencies.

RTTY was the major system. The callups and messages can be divided into two groups: the most common one for the America's and Europe was: "46464646464646 KUL KUL KUL KUL 1/226". Note that 46's are transmitted instead of RY's, then the callsign of the recipient and the number of messages/number of 5-letter or 5-figure groups in this message.

The other one was only noted in Europe but might have been expanded by now. The transmissions start with a selcal of 6-tones (the selcal system is called Mazielka), followed by the callsign of the recipient sent in CW, then into RTTY where the preamble is handkeyed while the other system had an automated preamble. The Mazielka callup has been reported since mid 1994. The Mazielka is a selcal system that was used by the master station to wake up a station outside the normal fixed sked. It was probably only used to catch the operators attention, not to start the equipment remotely. The fact that they switched to CW after the Mazielka was a sure sign that the operator had to prepare the equipment before they could start the transmission. The use of non-error correcting RTTY systems made it practically impossible to establish a link automatically. The Mazielka was never used during the normal schedule times. Nowadays the system seems to have a more structured behavior and the system may even automatically switch on the receiving equipment because they hardly start with CW anymore. The CW operator chats that follow the messages are still there though.

We have found several clues about the preambles and QSL's of the link system

that is still being used, although less frequent than in the 1990's. Let's take a closer look at the preambles. Each message starts with a preamble that consists of 5 groups, followed by the message itself. A typical preamble looks like this: 11177 00142 23687 05012 01109.

- 1st group:

The message identifier, stating what kind of message it is. This might also be a priority code. 11144, 11166, 11177 and 11199 are the combinations heard so far. The most common are 11177 and 11199. The latter is being used for QSL purposes.

- 2nd group:

The link-identifier, each link has its own id, except for stations who have a two-way link, in that case both stations have the same link-id.

- 3rd group:

Could be related to the key. Most of the time a 5-figure group but also "00000" was regularly noted.

- 4th group:

The first two digits are the date and the last three are the message number.

- 5th group:

The first four digits represent the number of groups in the message + 1. The extra group is most likely the key (3rd group of the preamble). The last digit is either a "1" or a "9".

After the messages have been sent, the operators sometimes have a little chat. In the America's the conversations were in often poor English while on the European side they often chatted in Cyrillic.

As I mentioned earlier, they also used QSL messages. The original messages were transmitted on other frequencies and even on other days than the day the QSL messages were sent. Note the first group of the preamble is always 11199 and the messages always started with 55555 followed by 77011, while the last groups represent the QSLed messages. A typical QSL preamble and message looks like this:

```
11199 00142 00000 18010 00069
55555 77011 00089 00090 00091
```

Various RTTY speeds were used on this net in the 1990's. The most common were Baudot 50Bd, 75Bd and 100Bd with 500Hz shift. Besides RTTY also CROWD36 and Morse have been used.

In the (recent) past many Direction Finding activities were conducted with good results. The European master station is located in the Moscow region, while the now defunct WFO/MIG link was the link between Cuba and the New York area, probably the Russian UN legation. Station GMN could have been located in or near

Mexico City. Most transmissions came from either Moscow or Cuba. Only a few other locations are known. See further the callsign list at the end of this article.

Moscow sends messages to many other stations, most likely governmental stations like embassies and consulates. The transmissions from Cuba were to BAR, BPA, HZW, JMS, KAC, NDO, PSN, SPK, WFO, WNY, YBU; all unid locations except for WFO.

There is a very significant feature to the 5-letter traffic. The last group of every message is a simple substitution which indicates the date the message was composed and the group count which is always 3 less than the group count shown in the preamble. The substitution is:

0	I	U	Z	T	R	E	W	A	P
0	1	2	3	4	5	6	7	8	9

For example:

11177 00148 57477 26811 00609

5LGs QKANG X0BJZ VEVXX UEORW

The last group translates to 26057 -- 26th of the month, 57 groups.

Message samples:

A very popular one in the 1990's was the master station in Moscow that sent blind routine messages to KUL, VKX and several others at a fixed daily schedule. Note the "46" test slip instead of "RY". "KUL" is the callsign of the recipient, there are 3 messages with a total of 535 5-letter groups. (messages shortened)

ku1 ku1 ku1 3/535 ku1 ku1 ku1 3/535 ku1 ku1 ku1 3/535
ku1 ku1 ku1 3/535 ku1 ku1 ku1 3/535 ku1 ku1 ku1 3/535
ku1 ku1 ku1 3/535 ku1 ku1 ku1 3/535 ku1 ku1 ku1 3/535

11177 00142 33972 29181 01479

pofre xhtwl ewpxu garrv peife dfhfb sdstt bewph jxqzn uhlwo
 lukhy mavla bgwmu vvhmo tzptw ssrx ibsho joznd grdlo nmxyf
 qspsi exvhm hacfj kqzfc nyldc szdqv tvwpv cnotp ozapg orijf

11177 00142 17790 29182 01459

uodkh mtauY ssfnc czanv caecr scyiv yccpi kqqhi qvvub qursm
uozjz arrir zutzn zubfy xjzpg ozydy mxgdk cgsec cerbk jvmzc
qbozz bgssz yjiky guglv avrae yfypo avjux sxfis nihoi zsgmb

11177 00142 04039 29183 02439

enqkz kjoan ryvhn vuacc tvzuz fclci zfmsh pmjkw lgppv aabag

DJNFCKGZYPAOBG RMLAWWALMR E SIU

VNWGZXYDLU VCXRMWSDABHZJ

VGPLCRI12(@7 VGPLCRI12(@7

RNCTLHPOGMV DCWOX

Other formats on non CROWD36 channels.

Multifigure groups e.g. 422140226144418178=

Three samples of RTTY messages sent in 2009.

Marker:

00000+++++++162)5761	00000+++++++162)5761
00000+++++++162)5761	00000+++++++162)5761
00000+++++++162)5761	00000+++++++162)5761
00000+++++++162)5761	00000+++++++162)5761
00000+++++++162)5761	00000+++++++162)5761
00000+++++++162)5761	00000+++++++162)5761
00000+++++++162)5761	00000+++++++162)5761
00000+++++++162)5761	00000+++++++162)5761
...	
00000+++++++162)5761	00000+++++++162

Message on 4560 kHz, 31-10-2009, 1750 UTC

RYRYRYRYRYRYRYRYRYRYRYRYRYRYRY

198 156 31 1750

73180	40992	98051	58069	80201	68409	58713	89297	26241	99557	
76528	75368	74678	97693	74598	40849	68646	54922	70646	35357	
36273	87156	95581	45166	42509	61996	76635	27585	54722	95446	
64710	66507	14245	78429	10678	72612	31074	19011	20276	76609	
43898	11293	42308	89005	12646	66900	69839	24801	35737	70007	=50=
51399	43734	39289	98313	83903	0198	88489	14578	45716	67715	
48349	25122	04176	36264	10127	18147	34828	41296	14735	41465	
67926	65006	02816	21589	27608	60975	81692	67287	93440	80624	
51420	68558	39010	84931	57098	26938	27256	39833	59635	78108	
67224	18759	42171	92717	61938	60730	94317	66366	02072	57464	=100=
41431	34688	85102	67915	11079	74466	64654	83704	53911	76726	
59687	93853	61113	02731	78253	22283	45619	58829	35478	36496	
56361	76637	17226	19848	74554	97006	83566	61417	68745	84721	

::: MODES

The governmental transmissions that we monitor are a mixture of intelligence, diplomatic and military stations. During the past 10 years a host of digital modes have been used by the Russians. In the past most of the transmissions were in AM, USB, CW and RTTY. The first CROWD36 logs are from late 1999 and after that all the modes that are mentioned hereafter were introduced.

We still can listen to voice and morse numbers stations but the majority of the other transmissions are in modern digital modes, heavily encrypted. The Enigma designator for the majority of the digital stations was M42. Enigma 2000 deleted this designator but N&O will still be using it. The polytone stations however are not catalogued under M42 but under XP and the Mazielka has X06 as designator.

Mode	ENIGMA designator
-----	-----
AM	various E,G,S,V stations
USB	various E,G,S,V stations
CW	various M stations
ARQ-system 100.17Bd/500Hz (ITA-5 based)	M42
ARQ-system (ITA-2/Baudot based)	M42
Baudot 50.10Bd/500Hz	M42
Baudot 50Bd/500Hz	M42
Baudot 75.12Bd/500Hz	M42
Baudot 75Bd/1000Hz	M42
Baudot 75Bd/425Hz	M42
Baudot 75Bd/500Hz	M42
Baudot 100Bd/500Hz	M42
Baudot 187.5Bd/500Hz	M42
Baudot 186.7Bd/500Hz	M42
Baudot 200.32Bd/500Hz	M42
Baudot 200Bd/1000Hz (288-Bit frame)	M42
Baudot 200Bd/485Hz	M42
Baudot 200Bd/500Hz	M42
Baudot 201.68Bd	M42
Baudot 202Bd/500Hz	M42
CROWD36	M42
CROWD36 + OFDM	M42
CROWD36/40Bd MFSK	M42
FSK 25Bd	M42
FSK 50Bd/500Hz with 5-bit async ITA-2 coding	M42
FSK 200Bd/1000Hz	M42
Mazielka. 2-tone selcal system	X06
Mazielka. 6-tone selcal system	X06
MFSK 7.49Bd	M42
MFSK-20/10Bd	M42
MFSK-20/20Bd	XPA

MFSK-32	M42
MFSK-32 + 25-tone OFDM	M42
MFSK-32/CROWD36	M42
MFSK-32/CROWD36 + 25-tone OFDM	M42
MFSK 11-tone 125Bd	M42
MFSK 13 tone	M42
MFSK 15-tone 20Bd	XPA2
MFSK 16-tone 10Bd	M42
MFSK 16-tone 20Bd	M42
MFSK 32-tone	M42
MFSK 32-tone + OFDM 25-tone	M42
MFSK 32-tone/40Bd MFSK	M42
Multi tone system 1+12	XP
Multi tone system 12+1	XPH
Multi tone system 13-tone, 7.5Bd, 16Hz tone spacing	M42
Multi tone system 17+1	XPM
Multi tone system 18-tone, 1.25Bd, 40Hz tone spacing	M42
OFDM 34 tones + MFSK 32 tones/40Bd	M42
PSK 2-tone	M42
QPSK	M42
VFT PSK 64Bd	M42

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

M42 / X06 have been using a lot of frequencies during the past 10 years. This list is most definitely not complete. The mazielka calls are sometimes heard on the same frequencies as M42.

M42 frequencies

4022	4576	5081	5178	5256	5268	5324.5	5340.5	5371.5
5762.5	5772.5	5783	5937.5	6773	6780	6782.5	6788	6802
6809.5	6823.5	6832	6835	6843	6866	6872	6873.5	6878
6880.5	6891	6921	6968	7527	7560	7600.4	7629	7639
7655.5	7718	7804	7810	7886	7914	7935	7944	7952
7962	8005.5	8026.5	8030	8049.6	8050	8058.5	8066.4	8069
8074.5	8077	8079	8081	8088	8099	8108	8110	8110.5
8114	8125.5	8140.5	8157	8158	8160.5	8173	8173.5	8177
8180	8187.5	8810	8884.5	9059	9062	9073	9073	9075.5
9111	9114	9119	9119.5	9120	9121	9121.5	9124	9132
9134.5	9137	9138	9143	9145	9153	9154	9160	9180
9190	9216	9228	9230	9235	9239.5	9244	9302	9340
9354	9410.5	9412	9980	9992	10120.5	10125	10126	10141.5
10150	10163	10165	10172	10175	10175.5	10177.7	10179	10179.5
10193	10198.5	10218.5	10220	10237	10247	10270	10271	10328
10328	10393	10411	10422	10443	10467	10475	10476.7	10479
10485	10511.5	10515.5	10517.5	10546	10552	10584	10631	10648
10671	10717	10733.5	10750	10767	10815	10818	10838	10844

10853	10855	10863	11015.5	11027	11063	11069	11072	11072.5
11084.5	11099	11114	11117	11120.5	11127	11132	11140	11150
11170	11411	11412.5	11415	11415.5	11417	11421	11435	11459.5
11460	11470	11472	11478	11486	11487	11501	11523	11524.5
11525	11537	11637	11637	12118	12122	12125	12136	12137
12147	12150	12152.5	12161	12165	12170	12176	12177	12180
12184	12186.5	12187	12192	12193	12194	12196	12198	12209
12215	12215.5	12217	12219	12223.5	12239	13283	13366	13369
13380	13382	13384	13388.5	13391	13392	13410	13415	13417.5
13423	13436	13447	13451	13452	13453	13458	13462	13468
13470	13483	13484	13495	13505	13506	13521	13545	13548
13556	13579.5	13620	13621	13683	13818	13848	13852	13857
13857.5	13867	13872	13879	13880	13887.5	13888	13903	13906
13922.5	13932.5	13934.5	13957	13983.5	14270	14352	14373	14375
14381.5	14383	14389	14392	14402	14408.5	14419	14426	14427
14432	14434	14435	14440	14447	14453.5	14457	14457.5	14459
14470.5	14475	14477	14482.5	14483	14485	14505.5	14530	14535
14536	14565	14575	14576	14585	14588	14614	14626	14638
14639	14640.5	14642	14650	14650.5	14652	14655	14655.5	14657
14673.5	14690	14715	14720	14731	14787	14805	14815.5	14817
14817.5	14820	14821	14822	14823	14823.5	14827	14832	14837.5
14843	14844	14850	14866	14871	14882	14909	14914	14938
14941	14953	14968	14971.5	14973	14980	15634	15822	15824.5
15862	15872	16008	16025	16048	16064	16082	16090	16107
16119	16130	16137	16143	16144.5	16150.5	16151	16152	16153
16153.5	16158	16166.5	16178.5	16185	16212	16216	16217	16218
16219.5	16223	16227	16232	16236	16242	16248.5	16257	16275
16277.5	16285	16295	16316	16320	16323.5	16328	16342.5	16347
16347.5	16348	16350.5	16351.5	16357	16481	16842	16843	17412
17412.5	17414	17416	17417	17421	17430	17457	17463	17464
17466.5	17470.5	17473	17476.5	17477.5	17478.2	17487	17519	17528
18048	18060	18093	18111.5	18172	18173	18177	18193	18210
18210.5	18220.5	18238.5	18240	18245	18245.5	18247	18257	18274
18304	18305	18332	18373	18401	18410	18443	18506	18512
18518	18523	18538	18540	18562	18582	18588	18591	18703
18725	18752	18835	18922	19072	19088	19110	19125.5	19175
19200.5	19202	19204	19209	19354	19410	19415	19425	19518
19521.7	19522	19585	19858	19880	19923	19926	20117	20127
20138.2	20140	20157	20197	20268	20277	20322	20333.3	20370
20615	20690	20741	20815	20817	20883	20912	20940	20991
21856	22863	22865	22873	22943	22956	23130	23131 kHz.	

Mazielka (X06) frequencies:

4963	5072	5082	5230	5232	5270	5272	5458	5772
5780	5781	5818	5820	5831	5838	5850	5932	6496
6800	6804	6808	6842	6850	6851	6855	6868	6870
6874	6882	6883	6884	6892	6912	6912	6915	6942

6950	6958	6959	6962	6970	7490	7516	7524	7526
7527	7529	7680	7680	7682	7691	7734	7819	7820
7822	7910	7916	7939	7975	7988	8027	8063	8078
8081	8082	8083	8085	8086	8091	8105	8107	8123
8124	8131	8132	8141	8170	8175	8179	8180	8182
9053	9061	9065	9067	9072	9076	9102	9105	9106
9123	9145	9147	9168	9171	9172	9179	9197	9200
9215	9218	9235	9236	9240	9253	9288	9300	9301
9303	9305	9450	9923	9930	10116	10127	10165	10193
10196	10205	10218	10240	10270	10275	10283	10283	10335
10372	10374	10535	10536	10550	10601	10653	10712	10731
10814	10815	10816	10860	10862	10915	11022	11025	11093
11095	11114	11153	11411	11413	11424	11438	11450	11462
11464	11472	11483	11494	11525	11538	11545	11556	11565
11572	11574	11608	12066	12089	12090	12091	12100	12109
12110	12115	12117	12120	12134	12149	12150	12152	12157
12158	12167	12168	12174	12177	12177	12178	12186	12194
12195	12199	12200	12201	12207	12210	12213	12214	12215
12218	12219	12224	12225	12226	12300	12338	12500	12782
12862	12872	13000	13200	13393	13395	13401	13419	13420
13423	13425	13448	13450	13465	13467	13493	13505	13506
13517	13518	13525	13800	13842	13854	13862	13872	13925
13933	13940	13961	13985	13987	14000	14392	14419	14420
14434	14446	14475	14488	14500	14501	14547	14550	14560
14563	14570	14590	14650	14675	14720	14765	14781	14812
14815	14817	14824	14825	14845	14861	14863	14871	14942
14942	14950	14970	15289	15800	15828	15836	15858	15973
16025	16028	16045	16115	16116	16117	16119	16165	16221
16223	16225	16227	16320	16332	17420	17421	17432	17463
17511	17512	18206	18245	18250	18321	18349	18350	18920
19145	19213	19611	20347	20436	23458	kHz.		

<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>

Mazielka tone sequences heard so far.

Note that the usual sequence consists of six tones. Sometimes a two-tone variant can be heard. Other variants are probably errors.

Two-tone sequence: 121212

Six-tone sequences:

122433	123456	131313	134265	145234	145632	151515	152346	153624	154263
154632	156234	161616	164253	164532	165324	165423	212121	213546	214356
214365	215346	231654	241563	246135	246531	256134	256341	314265	325614
351264	352416	356412	361245	362154	364152	412356	416253	421635	432516
435621	436125	436512	452163	454545	463125	464646	465132	521634	532614
534216	561243	562431	564213	565656	612534	624153	645321		

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

Link id's and callsigns.

Txm c/s	Link id	Rcvr c/s	Location / remarks
AVK	10042	RPR	Moscow, Russia
BFR	00030	RGA	Russian embassy, Damascus, Syria
COY 851		TR0	Cuba (heard before the link id was used)
COY 851	00103	YFC	Cuba
DCW	60047	URO	
DZR	00149	RVV	
K4MT		NT9P	
KKK	30022	KUA	Moscow, Russia
KNY 31		LCU	Russian embassy, New York, USA (early 1980's)
KUA	30022	KKK	Russian embassy, Baghdad, Iraq (Unconfirmed)
LKF	00031	WCD	
M4W		RK2	Mossad, Israel
MIG	00125	WFO	Russian embassy, Havana, Cuba
NT9P		K4MT	
NXQ	00052	YOA	Moscow, Russia
PLM			
PSN	03861		
RBP 71	20087	RVC 47	Moscow, Russia
RCF			MFA Moscow, USSR
RGA	00030	BFR	Moscow, Russia
RJA	90051	URS	Moscow, Russia
RK2		M4W	SVR Moscow, Russia
RKD			Moscow, Russia
RKG			Moscow, Russia
RLX	40034	UXW	Moscow, Russia
RPR	10042	AVK	Moscow, Russia
RRA			Moscow, Russia
RVC 47	20087	RBP 71	
RVV	00149	DZR	Moscow, Russia
RYS	10075	ZND	
UBW			
UGL			
URO	60047	DCW	Moscow, Russia
URS	90051	RJA	
UTN 7		UUD 4	
UUD 4		UTN 7	
UXW	40034	RLX	Russian embassy, London, UK (Unconfirmed)
VNB	80061	WQL	Moscow, Russia
WCD	00031	LKF	Moscow, Russia
WFO	00125	MIG	Russian embassy, Managua, Nicaragua
WQL	80061	VNB	

YFC	00103	COY 851	
YOA	00052	NQX	Moscow, Russia
ZND	10075	RYS	
		018	
		026	
		037	
		047	
		098	
		099	
		104	
		107	
		111	
		118	
		131	
		137	
		162	
		208	
		212	
		219	
		242	
		513	
		736	
		825	
		842	
		851	
		891	
		ACD	
		BLA	
		BLZ 26	
		BNV	
		BXL	
		CMU	
		DMA	
		DPL	
		DPU	
		DSG	
		EWZ 40	
		FJN	
		FRU	
		GLK	
		GSW	
		GVS	
		KDN	
		KNA	
		LSG	
		NDO	
		NMZ	
		OBX	

	OTD	
	OWR	
	PLM	
	PSN	
	PTF	
	RKG	
	RKM	
	RLJ	
	RMM	
	ROL	
	RQO	
	RSS	
	RXX	
	RZJ	
	SCJ	
	TRP	
	UBW	
	UGL	
	USN	
	UXG	
	WKL	
00006		
00007		
00012		
00018		
00020	ROP	
00023		
00023		
00028		
00029		Moscow, Russia
00035	PAO	
00041		
00050		
00051		
00054	UDZ 21	Moscow, Russia
00063		Moscow, Russia
00068		
00070	RAU	Moscow, Russia
00074		
00075		
00079	UGO	
00089		
00090	GOD	
00096	FWL	Moscow, Russia
00097		Moscow, Russia
00098	VTX	Moscow, Russia
00099	RSZ	Moscow, Russia
00101	RKA	

00102	RFU	
00102	UAN	
00102	UFN	
00102	URG	
00103	U1K	(U1K noted once. Possibly not a callsign)
00104	RPY	
00107		
00110	XQW	
00115		
00116	BPA	Cuba
00117	HZW	Cuba
00119	GMN	Russian embassy, Mexico City, Mexico (Unconfirmed)
00127	JMS	Cuba
00128	KAC	Cuba
00132	RNO	Russian embassy Beograd, Yugoslavia
00135	BAR	Cuba
00139	WNY	Cuba
00142	KUL	Moscow, Russia
00148	YBU	Cuba
00155	UMK	
00162		
00166	VKX	Moscow, Russia
00168	SPK	Cuba
00169	KMI	
00177	RSZ	(Error? RSZ's link id always was 00099. Noted once)
00178	KRN	
00189		
00189		
00190	JSC	(Has POU replaced JSC, or other side of the link?)
00190	POU	Moscow, Russia
00191		
00198		Moscow, Russia
00209		
00213	RNS	
00701	UFO	
00918		
06019		Moscow, Russia
07039		Moscow, Russia
10020		
10024		
10047		
10053		
10064		
10079		
10097		
10163	UDZ 27	Moscow, Russia
11063	RDT	
11230		Moscow, Russia

12311		Moscow, Russia
13005		
20008		
20010		
20043		Moscow, Russia
20054		Moscow, Russia
20065		
20076		
20098		
20108		
30004		
30011		Moscow, Russia
30044		Moscow, Russia
30088	RCX 81	Moscow, Russia
30132		
40007		Moscow, Russia
40023		Moscow, Russia
40078		
40155		
40177		
40878		
43323		Moscow, Russia
50002	CAZ	Moscow, Russia
50035	JUA	Moscow, Russia
50046		
50080		
50088		
50101		
50189		
60003		
60003	FQX	Moscow, Russia
60015		Moscow, Russia
60069	EWZ 42	Moscow, Russia
60089		
60179		Moscow, Russia
60191		
70004	NOB	Moscow, Russia
70006		
70026		Moscow, Russia
70026		
70037	RAD	Moscow, Russia
70060	DKR	Moscow, Russia
73004		
80031		
80038	RPO	Moscow, Russia
80050		Moscow, Russia
80104		
90006		

Moscow, Russia

Moscow, Russia

::: UNID STATIONS

3270 kHz, 1855 UTC, 12-12:

<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>

Frequencies: 3159.4, 4489.4, 4496.4, 4896.4, 5734.4, 7426.4, 7618.4, 7746.4, 9081.4, 9319.4, 9385.4, 9186.4, 14446.4 kHz, sometimes on 2 parallel frequencies.

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>

Heard in S.E. Asia:

1802.9	4BHI
1802.9	RL1
1804.0	2AHAF
1807.9	2AFNO
1812.0	40W
1812.0	VH7
1820.0	DF6
1822.0	2AHAL
1823.9	2AFRS
1860.0	IX9

1860.0	BD2
1860.7	UC3
1865.0	GE0

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>

::: CLANDESTINE ACTIVITY SURVEY

PRESS RELEASE

December 31, 2009

2009 Clandestine Activity Survey

During the year 2009 the activity of political clandestine stations broadcasting on shortwave has decreased by 13.4 % to 1088 Weekly Broadcasting Hours (WBHs). This is the lowest level of activity ever recorded since this survey has been introduced in the year 1986 (so far the low had been 1116 WBHs in the year 1999).

The activity of clandestine stations broadcasting to target areas on the Asian continent has dropped by 18.7 % to 744 WBHs. On the American continent the activity has decreased by 8.4 % to 197 WBHs. However, on the African continent the activity has even increased (although from a very low level) by 21.5 % to 147 WBHs.

For the second year in a row the most active target area worldwide is North Korea with 252 WBHs (+7 when compared with last year), followed by China P.R. with 226 WBHs (+2). On the third place is Cuba with 197 WBHs (-18).

The number of different target areas active worldwide has remained unchanged at 17, although some changes have occurred. While Laos and Iran are no longer thought to be active, Madagascar and Sudan have emerged as new/reactivated target areas.

End of Press Release

Mathias Kropf
Maehr.-Schoenberger-Str. 9
36251 Bad Hersfeld
Germany

Fax +49-6621-965830
e-mail: 100144.232@compuserve.com

* CHINA UPDATE *

Igor found a couple of errors in the "Chinese Numbers Update" in N&O 145. I have changed the items in N&O 145 and uploaded the file to the N&O website.

Errata

::: V26

Message sample of V26:

V 4NA4 4NA4 4NA4 44 XSV XSV V 4NA4 4NA4 4NA4 44 XSV XSV

correct:

V BNAB BNAB BNAB DE XSV XSV V BNAB BNAB BNAB DE XSV XSV

Note:

The station also uses "BNAA" and "XSA"

HR MFP 40 7R N044 V7

correct:

HR	MSG	TO	YR	NOTE	CY
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
21	21	21	21	21	21
22	22	22	22	22	22
23	23	23	23	23	23
24	24	24	24	24	24
25	25	25	25	25	25
26	26	26	26	26	26
27	27	27	27	27	27
28	28	28	28	28	28
29	29	29	29	29	29
30	30	30	30	30	30
31	31	31	31	31	31
32	32	32	32	32	32
33	33	33	33	33	33
34	34	34	34	34	34
35	35	35	35	35	35
36	36	36	36	36	36
37	37	37	37	37	37
38	38	38	38	38	38
39	39	39	39	39	39
40	40	40	40	40	40
41	41	41	41	41	41
42	42	42	42	42	42
43	43	43	43	43	43
44	44	44	44	44	44
45	45	45	45	45	45
46	46	46	46	46	46
47	47	47	47	47	47
48	48	48	48	48	48
49	49	49	49	49	49
50	50	50	50	50	50
51	51	51	51	51	51
52	52	52	52	52	52
53	53	53	53	53	53
54	54	54	54	54	54
55	55	55	55	55	55
56	56	56	56	56	56
57	57	57	57	57	57
58	58	58	58	58	58
59	59	59	59	59	59
60	60	60	60	60	60
61	61	61	61	61	61
62	62	62	62	62	62
63	63	63	63	63	63
64	64	64	64	64	64
65	65	65	65	65	65
66	66	66	66	66	66
67	67	67	67	67	67
68	68	68	68	68	68
69	69	69	69	69	69
70	70	70	70	70	70
71	71	71	71	71	71
72	72	72	72	72	72
73	73	73	73	73	73
74	74	74	74	74	74
75	7				

MFP APN NR 1177 60 51 1006 2156

correct:

MSG AGN NR 1177 60 51 1006 2156

HR MFP PA NR 1176 65 51 1006 1637

correct:

HR MSG GA NR 1176 65 51 1006 1637

NHR ZNN SK ZNN SK

correct:

HR ZNN SK ZNN SK

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

::: M81

I mentioned that M81 is the morse sister of V25. This is not correct. The sister station of V25 is MC01.

M81 might even be Indian in stead of Chinese. Its behavior is very similar to the Indian naval stations.

2822.0 Russian Mil: MYDU ends 46-group message "... <FL÷V XChAch_ WEPRY 467 \ RPT AL K. MYDU C K". Then QTC for X20V: no apparent response.

2737.0 Russian Air Force: REA4 //7018 kHz FSK.

2932.0 Russian Mil: RFFN. Morse Duplex "RFFN 188 22 16 2325 188 = 885 = 5ALGs = ar RFFN k ok sk"

3159.0 CIS Mil. KUPY net control radio check with APV0, TOFX and L2ZW

3164.0 CIS Mil. DLEK net control radio check with CBOK, QGLD and B27T

3178.0 Russian Navy: "DE RGT77 949 = =" into 5L msg

3207.0 CIS Mil. NMZX net control 5L message and confirmation of traffic with 3NTJ, B84S and 7RAR.

3211.0 CIS Mil. PX1Q radio check with net control YGNM

3217.0 CIS Mil. B9Q1 net control 5L message and confirmation of traffic with ZDMQ, P3SM and VCFD.

CIS Mil. "PTQX de 4DOB QTC 034 70 12 2046 034 = AD<P< SV÷RK ... TEALS fWPYY 985 ..."

3229.0 CIS Mil. "ABDA DE DL00 QSA"

3291.0 Russian Navy Kaliningrad. Channel marker "P" + 5FGs encrypted 50bd RTTY

3299.0 CIS Mil. "TDC0 DE 3QMN QTC 658 32 2 2150 659 = = 239 = DDDDD"
CMB6 calls 9ABR for QSA. 9ABR gives "QSA1 QSA? K. CMB9 QSA1 K".

3302.0 Russian Navy. "RIF80 DE RIW QSA3"

3312.0 CIS Mil. WQ2L, KLDH, 4ROC in contact with net control Z07W.
CIS Mil. "CVQF de C41W QSA3 QRK3 K. C41W de YSOV QSA2 QRK2 K".

3313.0 CIS Mil. "xxx xxx CKAS CKAS 335 FLANG 521 ; QSU1 QMM QSW"

3314.0 CIS Mil. "DE WV2A QSA1"

3318.0 CIS Mil. "PVT7 DE QGPR QTC" + 5L message

3354.0 Russian Mil. "DE P2G0 P2G0 QTC 8073 31 2046 807 = ZB0 017 = PPPPP"

Russian Mil. PWYA ends 39-group message to LSS0: "Y0GV0 ffPE0 321 K".
LSS0 responds on QSX 2839 kHz. Then sends message to SUF4: "810 49 11

0102 810 = 809 = P P P P P W J I U V ... O E P C h D f f P R Y 3 2 1 K".

Russian Mil. P X K C comms check with O K Z E, N A P N, F D 4 F and J L Y I who all respond on Q S X frequency 2839 kHz. P X K C calls for M S - 5 link with 9 M 2 H: "9 M 2 H de P X K C Z S A Z F G Z M A Q Y T 6 K". Then "Z U D Z M G Z S D Z I U Z Z G Q Y T 6 K". Closes link at 1723 with "Q B E Q Y T 6".

3755.0 Russian Navy "R T S" received messages from: U G U 2, R B N 3, U G U 4, U G U 9.

3785.0 Russian Navy "U G U 8" contacted U G U 23, U G U 25, U G U 27, U G U 24.

3826.0 C I S Mil. 9 V A 2 radio check with H B M 1 and T 8 S G.

3886.0 C I S Mil. V A L Q calling L K P 3 for Q T C.

4051.0 Russian Navy: R A L 2 radio checks with R L M 2, R K A 2, R B L 70 after S L B "P" of Navy H Q Kaliningrad.

4079.0 Russian Navy Kaliningrad: R M P. Fleet weather forecast and navigational warnings; "kaliningrad 160 karta".

Strategic flash message to collective recipient R E O; "xxx xxx reo reo 80245 wozyrÊ 4392 4149 k" ("Ê" = morse . - . - = Russian letter "?")

Weather and navwarnings interrupted (?) by strategic flash message to warship(?) R B I J; "xxx xxx rbij 3045_ glazenap 909_ 24__ k" High levels of qrm made rx difficult, R B I J could have been R B I 2.

"R E O R E O D E R M P R M P Q T C 7 4 4 6 9 3 T 2 T T 5 7 4 4 = W S E M S U D A M D E J S T W U < Q I E P R I P K A L I N I N G R A D N A 3 1 0 0 0 0 D E K A B R X 2 0 0 9 G O D A 2 0 0 7 G O D 3 6 2 0 0 9 G O D 1 3 4 0"

4308.0 Russian Naval Air Transport.

"R J F 9 4 D E R C B Q S A 1"

"R J F 9 4 D E R J C 4 8 Q S A ?"

"R C B D E R J F 9 4 Q S A ?"

4387.0 Russian Navy Kaliningrad: R M P

4395.0 Russian Navy Kaliningrad: "R K W 9 5 D E R M P Q S A"

"D E R M P O K S U 1 Q W H Q S Y 4 3 8 7 / 4 3 8 7 Q S X 4 1 T R 4 A M T 9 K"

4476.0 Russian Navy Kaliningrad. Channel marker "P" + msgs.

4582.0 Russian high command broadcast channel, 5fg strategic msg to collective recipient R D L: "uu rdl rdl rdl 6478t t2795 6478t t2795 6478t t2795 k" // 00018.1 kHz Russian primary VLF channel.

4586.0 Russian Mil. "8 R 7 B Q T C 6 8 3 2 7 3 0 1 9 1 0 6 8 3 = 7 3 6 = P P P P P ÷ Y A W S ...

KGKDW EPPWR 890 K." LDBO clone.

Possible CIS Mil: "OQKZ OQKZ ATC 189 25 10 2240 189 = ZRG 364 =
00544547 6135 359788 38 684490 645153 70544844 454405394845 1398
18457720 0167804945585 755 2939103 1747 AR"

4825.0 Russian Navy Kaliningrad: RMP

4832.0 Russian Mil: FGSE ends 26-group message: "ERVYU HChChSA WWPWY 479 K.
FGSE RPT K. FGSE = VChEOW" (gives repeats).

4959.0 Russian Mil. Figure groups

4979.0 Russian Navy: RAL2 radio checks with RHQ2, RMW2 and QTC 290 to RGH2.

5124.0 Russian Mil. OKZE comm checks and opchat with 02G0 and others, later
"qtc 2t46 t 67 = 591 = " and setting up FSK link with unid player;
"ok ze ok qbe qyt9 k"

5206.0 Russian Navy Kaliningrad "DE RMP QSA K"

5221.0 Russian Mil: "reb94 reb94 reb94 de rir2 rir2 " "qtc 798 24 23 11-- 7
98 = aaaaaa wwune detbw" RIR2 rarely heard on HF.

5343.0 Russian Navy: RIT "rit qsl 236 k rit r k"

5736.0 Russian war ship RGV82: "RCV(x3) de RGV82(x2) ZZU 3832/3832 k"

6330.0 Russian Naval Air Transport Moscow: RJF94 wkg RCB (Kaliningrad), RJC48
(Sevastpol), RJC38 (Murmansk)

6342.0 Russian Navy. "rdl rdl rdl 35972 786t4 35972 786t4 35972 786t4 k"

6454.0 Russian Navy: RFK80 wkg RJD97.

6386.0 CIS Mil. "xxx WEGI 63080 prokurator 8508 6418 prolet 8436 7437 k"

6423.5 Russian Navy: "DE RBC89 RPT K"

6452.0 Russian Navy "RCV DE RGV82 ZVP K RCV DE RGV82 ZVP K =
OK K RCV DE RGV82 ZZD K"

6805.0 Russian Mil? "uud4 de utn7 zct "rest drowning in noise.

6912.0 Russian Navy: RCV. "_ChZTG fPWIP = + RCV K. RCV de RGV82 NR 891 RPT 16
K. RCV RPT 18 IChCXK K". "rgv82 de rcv qyt 4 qcm k - de rcv qyt 4 qsx
6302/9396 k". "RGV82 DE RCV QYT4 QSX 6304 K"

7018.0 Russian Air Force: REA4. "REA4 = 02120 20069 75320 51405 11040 87600 18275 82458 4_103 13042 86427 = REA4 K. //8192 kHz.
"xxx xxx rea4 rea4 6749_ brudawa 7690 656_ k"

7523.0 Russian Mil: RMW32 wkg RMW34 and RMW36

7660.0 Russian Mil: ZPEE calling 9M5A for qtc; "= 372 41t = ddddd " then calling TG8U, "tg8u de zpee ... 5Lg's... zeq qsu1 gyt6 qsu6 k"

7861.0 Russian Mil: RAL2 signal checks between NCS RAL2 and players RFH2, RDU2, RHW2. "rfh2 rfh2 rfh2 de ral2 ral2 qsa? k". Only RAL2 heard, duplex ??, NCS later closing link with the same stations like this; "rfh2 rfh2 rfh2 de ral2 ral2 qsa qsa no no no znn znn k"

7998.0 CIS Mil sending 23-group message nr 360 to unid: ... 360 = 591 = AAAAA DDDDD ÷LBOX ... KOIRE KBKBW 415 K"

8083.7 Russian Mil?? "qtsm de jdmv qrj no zaj zvd zat zaj zvd zat k"

8192.0 Russian Air Force: REA4. "REA4 = 02120 20069 75320 51405 11040 87600 18275 82458 4_103 13042 86427 = REA4 K. //7018 kHz.

8345.0 Russian war ship RH062 clg RIT: "RIT RIT RIT DE RH062 RH062 QSA ? QTC"
K = SML FOR RMP RJD 85 ="
Russian war ship RCIG clg RCV: "RCV DE RCIG RCIG QSA1 K"
Russian war ships RKW95, RJH74, RJD38 clg RIT.

8810.0 Russian Air Force: REA4 //2737 kHz.

9109.2 Russian Navy: RIW "riw 939 24 23 1046 939 991 - 11111 18242 45791 60175 04869 ...23022 - rpt all riw k 0911z rcre de riw qsx 8330 1237 ii"

9110.0 Russian Navy: RIW: "RDND de RIW QYT4 SK K. RIW R K". //14556 kHz
"RK081 de RIW QSA1 QRV K. RIW RPT PBL K" //14556 kHz.

9933.0 Russian Mil: "RBL672 DE RAL2 QSA K" and "VVV VVV RAL2 DE RBL672 QSA 3"

10443.0 Russian Air Force: REA4. "xxx xxx rea4 rea4 02258 emwgust 0532 7584 k"

10543.0 Russian Navy. "rip90 rip90 de rcv rcv qtc..." & coordinates

11000.0 Russian Navy: RIW. Hand sent 24 wpm, passing telegrams from RMP Baltic Fleet to warship RMDZ; "riw 524 25 25 1423 534 =sml fm rmp= 5FG's ... 25t22 = ar riw", later calling RK081.

11155.0 Russian Navy: RIT.

11415.0 Russian Mil. K4MT asking NT9P to QSY 28831, then 27789 kHz

* LOGS SECTION *

436	MX	Mode: CW Date/time: 19-12-2009, 1358 UTC Remarks: Channel marker "P" Kaliningrad Contr:
475	MX	Mode: CW Date/time: 22-12-2009, 2221 UTC Remarks: Channel marker "P" Contr: (AB)
3150	E10	Mode: AM Date/time: 1-12-2009, 2230 UTC Remarks: PCD2 Contr: (XSH)
3167	MX	Mode: CW Date/time: 30-11-2009, 1826 UTC Remarks: Channel marker "P", Kaliningrad Contr: (PPA)
3167	MX	Mode: CW Date/time: 11-12-2009, 0420 UTC Remarks: Channel marker "P" Kaliningrad Contr: (Jon-FL)
3167	MX	Mode: CW Date/time: 12-12-2009, 1713 UTC Remarks: Channel marker "P" Kaliningrad Contr: (AB)
3167	MX	Mode: CW Date/time: 12-12-2009, 1953 UTC Remarks: Channel marker "P", Kaliningrad Contr: (AB)
3167	MX	Mode: CW Date/time: 14-12-2009, 2132 UTC Remarks: Channel marker "P" Contr: (TJ)
3167	MX	Mode: CW Date/time: 17-12-2009, 0016 UTC Remarks: Channel marker "P" Contr: (TJ)
3167	MX	Mode: CW Date/time: 22-12-2009, 1633 UTC Remarks: Channel marker "P" Contr: (MPJ)
3167	MX	Mode: CW Date/time: 22-12-2009, 2250 UTC Remarks: Channel marker "P" Contr: (TJ)
3167	MX	Mode: CW Date/time: 22-12-2009, 2333 UTC Remarks: Channel marker "P" Contr: (MSM)
3167	MX	Mode: CW Date/time: 24-12-2009, 2233 UTC Remarks: Channel marker "P" Contr: (MSM)
3189	S06	Mode: AM Date/time: Thu 24-12-2009, 1900 UTC Remarks: 407:0 Contr: (HFD)
3195	M01b	Mode: CW Date/time: 4-12-2009, 2000 UTC Remarks: 866 866 866 9T9 9T9 3T 3T = = repeated 5F Contr: (PPA)
3195	M01b	Mode: CW Date/time: 4-12-2009, 2000 UTC Remarks: 866 866 866 9T9 9T9 3T 3T = = repeated 5F Contr: (PPA)
3256	MX	Mode: CW Date/time: 4-12-2009, 1957 UTC Remarks: Channel marker "P", Kaliningrad Contr: (PPA)
3270	E10	Mode: AM Date/time: Thu 10-12-2009, 1600 UTC Remarks: ULX2 Contr: (FN)
3291	MX	Mode: CW Date/time: 2-12-2009, 1835 UTC Remarks: Channel marker "P" + encrypted 50 baud RTT Contr: (PPA)
3291	MX	Mode: CW Date/time: 11-12-2009, 0423 UTC Remarks: Channel marker "P" Kaliningrad Contr: (Jon-FL)

3291	MX	Mode: CW Date/time: 12-12-2009, 1951 UTC Remarks: Channel marker "P", Kaliningrad Contr: (AB)
3291	MX	Mode: CW Date/time: 14-12-2009, 2132 UTC Remarks: Channel marker "P" Contr: (TJ)
3291	MX	Mode: CW Date/time: 16-12-2009, 2020 UTC Remarks: Channel marker "P" Kaliningrad Contr: (FN)
3291	MX	Mode: CW Date/time: 17-12-2009, 0016 UTC Remarks: Channel marker "P" Contr: (TJ)
3291	MX	Mode: CW Date/time: 21-12-2009, 2251 UTC Remarks: Channel marker "P" Contr: (MPJ)
3291	MX	Mode: CW Date/time: 22-12-2009, 2300 UTC Remarks: Channel marker "P" Contr: (TJ)
3291	MX	Mode: CW Date/time: 29-12-2009, 2125 UTC Remarks: P: Rus Navy Kaliningrad RUS Contr: (WP3)
3322	M21	Mode: CW Date/time: 4-12-2009, 1845 UTC Remarks: Russian Air Defence. =992145??t????? Contr: (PPA)
3322	M21	Mode: CW Date/time: 12-12-2009, 1710 UTC Remarks: Russian Air Defence. Time strings: =992010 Contr: (MPJ)
3322	MX	Mode: CW Date/time: 12-12-2009, 1954 UTC Remarks: Russian Air Defence =992254??0????? Contr: (AB)
3323	S06	Mode: USB Date/time: 1-12-2009, 1844 UTC Remarks: Russian YL callup 323 into repeated 5F msg Contr: (PPA)
3323	S21	Mode: USB Date/time: 1-12-2009, 1844 UTC Remarks: //3823 khz every Thursday/Tuesday 1840 UTC Contr: (PPA)
3415	E10	Mode: AM Date/time: 1-12-2009, 2300 UTC Remarks: ART2 Contr: (XSH)
3528.5	M51	Mode: CW Date/time: 12-11-2009, 2225 UTC Remarks: in progress Contr:
3540	S06	Mode: AM Date/time: Wed 2-12-2009, 1800 UTC Remarks: 471:0 Contr: (HFD)
3540	S06	Mode: AM Date/time: Wed 9-12-2009, 1800 UTC Remarks: 471:0 Contr: (HFD)
3540	S06	Mode: AM Date/time: Wed 16-12-2009, 1800 UTC Remarks: 471:0 Contr: (HFD)
3545	M01b	Mode: CW Date/time: Thu 3-12-2009, 1938 UTC Remarks: ip, ends 1943z: 45586 40911 == 909 909 30 30 000 Contr: (FN)
3593.7	MX	Mode: CW Date/time: 8-12-2009, 0329 UTC Remarks: Beacon "D" Contr: (Jon-FL)
3593.7	MX	Mode: CW Date/time: 11-12-2009, 0435 UTC Remarks: Beacon "D" Sevastopol Contr: (Jon-FL)
3593.7	MX	Mode: CW Date/time: 16-12-2009, 2132 UTC Remarks: Beacon "D" Contr: (AB)
3593.7	MX	Mode: CW Date/time: 29-12-2009, 2130 UTC Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)

3593.8	MX	Mode: CW Date/time: 5-12-2009, 2227 UTC Remarks: Beacon "P" Contr: (AB)
3593.8	MX	Mode: CW Date/time: 6-12-2009, 2116 UTC Remarks: Cluster beacon "P" Contr: (AB)
3593.8	MX	Mode: CW Date/time: 8-12-2009, 0326 UTC Remarks: Beacon "P" Kaliningrad. Contr: (Jon-FL)
3593.8	MX	Mode: CW Date/time: 16-12-2009, 2132 UTC Remarks: Beacon "P" Contr: (AB)
3593.8	MX	Mode: CW Date/time: 21-12-2009, 2308 UTC Remarks: Beacon "P" Contr: (MPJ)
3593.8	MX	Mode: CW Date/time: 22-12-2009, 2303 UTC Remarks: Beacon "P" Contr: (TJ)
3593.8	MX	Mode: CW Date/time: 23-12-2009, 2228 UTC Remarks: Beacon "P" Contr: (BCI)
3593.9	MX	Mode: CW Date/time: 6-12-2009, 2116 UTC Remarks: Cluster beacon "S" Contr: (AB)
3593.9	MX	Mode: CW Date/time: 21-12-2009, 2308 UTC Remarks: Beacon "S" Contr: (MPJ)
3593.9	MX	Mode: CW Date/time: 29-12-2009, 2132 UTC Remarks: S: Rus Navy Severomorsk RUS Contr: (WP3)
3594	MX	Mode: CW Date/time: 6-12-2009, 2116 UTC Remarks: Cluster beacon "C" Contr: (AB)
3669.5	MX	Mode: CW Date/time: 22-12-2009, 2137 UTC Remarks: Channel marker "P" Contr: (RP-MD)
3672	S06	Mode: AM Date/time: Thu 10-12-2009, 1900 UTC Remarks: 407:0 Contr: (HFD)
3672	S06	Mode: AM Date/time: Mon 28-12-2009, 1905 UTC Remarks: 407:0 Contr: (HFD)
3699.5	MX	Mode: CW Date/time: 30-11-2009, 2224 UTC Remarks: Channel marker "P" Contr: (BCI)
3699.5	MX	Mode: CW Date/time: 7-12-2009, 1938 UTC Remarks: Channel marker "P" Contr: (PPA)
3699.5	MX	Mode: CW Date/time: 22-12-2009, 2000 UTC Remarks: Channel marker "P" Contr: (DM2)
3699.5	MX	Mode: CW Date/time: 22-12-2009, 2215 UTC Remarks: Channel marker "P" Contr: (MPJ)
3699.5	MX	Mode: CW Date/time: 22-12-2009, 2242 UTC Remarks: Channel marker "P" Contr: (TJ)
3756	S30	Mode: CW Date/time: 6-12-2009, 2118 UTC Remarks: Pip Contr: (AB)
3756	S30	Mode: CW Date/time: 12-12-2009, 1949 UTC Remarks: The Pip Contr: (AB)
3756	S30	Mode: CW Date/time: 16-12-2009, 2144 UTC Remarks: Pip Contr: (AB)
3823	S21	Mode: USB Date/time: 1-12-2009, 1844 UTC Remarks: //3323 khz every Thursday/Tuesday 1840 UTC Contr: (PPA)
3828.9	S32	Mode: USB Date/time: 6-12-2009, 2118 UTC

		Remarks: Squeaky Wheel Contr: (AB)
3828.9	S32	Mode: USB Date/time: 12-12-2009, 1958 UTC
		Remarks: Squeaky Wheel Contr: (AB)
3828.9	S32	Mode: USB Date/time: 16-12-2009, 2144 UTC
		Remarks: Squeaky Wheel Contr: (AB)
3829.9	S32	Mode: USB Date/time: 20-12-2009, 1942 UTC
		Remarks: Squeaky Wheel channel marker Contr: (TJ)
3837	VC01	Mode: USB Date/time: 7-10-1009, 1206 UTC
		Remarks: 74294156 75022197 74294162 75020199 742942
		Contr: (IB)
3840	E10	Mode: AM Date/time: 1-12-2009, 2300 UTC
		Remarks: YHF2 Contr: (XSH)
3840	E10	Mode: AM Date/time: 8-12-2009, 1803 UTC
		Remarks: YHF1 Contr: (PPA)
3840	E10	Mode: AM Date/time: Thu 10-12-2009, 1600 UTC
		Remarks: YHF2 Contr: (FN)
3881	M51	Mode: CW Date/time: 12-9-2009, 0140 UTC
		Remarks: in progress Contr:
3881	M51	Mode: CW Date/time: 11-10-2009, 0130 UTC
		Remarks: in progress Contr:
3881	M51	Mode: CW Date/time: 12-11-2009, 0400 UTC
		Remarks: in progress Contr:
3881	M51	Mode: CW Date/time: 12-11-2009, 0500 UTC
		Remarks: in progress Contr:
4028.0	V02a	Mode: AM Date/time: Fri 18-12-2009, 0100 UTC
		Remarks: SSYL atencion: 63101 .1582 52552 weak Contr:
		(wesltli)
4028.0	V02a	Mode: AM Date/time: Fri 25-12-2009, 0100 UTC
		Remarks: SSYL atencion: 14611 30201 14832 weak Contr:
		(wesltli)
4028.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 0200 UTC
		Remarks: SSYL atencion: 56732 53331 13861 Extremely
		weak Contr: (wesltli)
4035.0	V02a	Mode: AM Date/time: Mon 14-12-2009, 0400 UTC
		Remarks: SSYL atencion: 74801 18232 13751 Contr:
		(wesltli)
4035.0	V02a	Mode: AM Date/time: Mon 21-12-2009, 0400 UTC
		Remarks: SSYL Extremely weak. Contr: (wesltli)
4043	MX	Mode: CW Date/time: 12-12-2009, 2128 UTC
		Remarks: Channel marker "P" Contr: (PPA)
4043	MX	Mode: CW Date/time: 22-12-2009, 2307 UTC
		Remarks: Channel marker "P" Contr: (TJ)
4043	MX	Mode: CW Date/time: 29-12-2009, 2134 UTC
		Remarks: P: Rus Navy Kaliningrad RUS Contr: (WP3)
4051	MX	Mode: CW Date/time: 2-12-2009, 1316 UTC
		Remarks: Channel marker "P", Kaliningrad Contr: (MPJ)
4051	MX	Mode: CW Date/time: 11-12-2009, 1602 UTC
		Remarks: Russian Navy: RAL2 radio checks with RLM2,

		Contr: (FN)
4051	MX	Mode: CW Date/time: 22-12-2009, 0707 UTC Remarks: Channel marker "P" Kaliningrad Contr: (BCI)
4051	MX	Mode: CW Date/time: 27-12-2009, 0718 UTC Remarks: Channel marker "P" Contr: (Jon-FL)
4165	E10	Mode: AM Date/time: Thu 10-12-2009, 1600 UTC Remarks: ART gc 94 txt CYIFB Contr: (FN)
4174.0	V02a	Mode: AM Date/time: Mon 7-12-2009, 0300 UTC Remarks: A 27282 82631 05431 (YL/SS) Contr: (RCh)
4174.0	V02a	Mode: AM Date/time: Mon 7-12-2009, 0300 UTC Remarks: SSSL atencion: 27282 82.38 .7... very weak Contr: (wesltli)
4270	E10	Mode: AM Date/time: 1-12-2009, 2230 UTC Remarks: PCD2 Contr: (XSH)
4270	E10	Mode: AM Date/time: Thu 10-12-2009, 1600 UTC Remarks: PCD2 Contr: (FN)
4325	MX	Mode: CW Date/time: 24-12-2009, 2257 UTC Remarks: Channel marker "R" Contr: (MSM)
4325.9	MX	Mode: CW Date/time: 16-12-2009, 2146 UTC Remarks: Channel marker "R" Contr: (AB)
4326.06	MX	Mode: CW Date/time: 20-12-2009, 1942 UTC Remarks: Channel marker "R" as usual not exactly on Contr: (TJ)
4326.08	MX	Mode: CW Date/time: 3-12-2009, 2122 UTC Remarks: Channel marker "R" Izhevsk Contr: (MPJ)
4326.1	MX	Mode: CW Date/time: 29-12-2009, 2136 UTC Remarks: R: Rus Navy Izhevsk RUS Contr: (WP3)
4331	M22	Mode: CW Date/time: 12-12-2009, 2011 UTC Remarks: 4XZ: Israeli Navy Haifa. "VVV DE 4XZ 4XZ / Contr: (PPA)
4331	M22	Mode: CW Date/time: 24-12-2009, 2015 UTC Remarks: 4XZ: Israeli Navy Contr: (MSM)
4443	M12	Mode: CW Date/time: Tue 1-12-2009, 0440 UTC Remarks: 408:1 Contr: (HFD)
4473	XPA	Mode: AM Date/time: Tue 1-12-2009, 2140 UTC Remarks: msg Contr: (HFD)
4476	MX	Mode: CW Date/time: 25-12-2009, 1514 UTC Remarks: Channel marker "P" + msgs Contr: (TJ)
4478.0	M08a	Mode: CW Date/time: Sat 5-12-2009, 1100 UTC Remarks: 5f cut nums: comes up already passing msgs. Contr: (wesltli)
4478.0	M08a	Mode: CW Date/time: Sat 26-12-2009, 1100 UTC Remarks: 5f cut nums: 72672 31681 74452 good signal. Contr: (wesltli)
4490.06	M01	Mode: CW Date/time: 29-12-2009, 2009 UTC Remarks: In traffic ... 43428 63428 31273 31273 ... Contr: (MPJ)
4491.85	M01	Mode: CW Date/time: 10-12-2009, 2000 UTC

Remarks: 197 197 ... 426 426 30 30 = = 80896 80896 Contr:
(MPJ)

4512 M12 Mode: CW Date/time: Wed 9-12-2009, 2220 UTC
Remarks: 350:0 Contr: (HFD)

4519 E07 Mode: USB Date/time: 27-12-2009, 1700 UTC
Remarks: OM/EE Ends at 1657z Contr: (linkz)

4523 M89 Mode: CW Date/time: 19-12-2009, 1815 UTC
Remarks: v qpzm qpzm qpzm de woxn woxn Contr: (AtB)

4530 --- Mode: FSK-CW Date/time: 11-12-2009, 0449 UTC
Remarks: Unid beacon "T" or "E" continuous. 500 Hz Contr:
(Jon-FL)

4557.7 MX Mode: CW Date/time: 6-12-2009, 2116 UTC
Remarks: Cluster beacon "D" Contr: (AB)

4557.7 MX Mode: CW Date/time: 29-12-2009, 2117 UTC
Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)

4557.8 MX Mode: CW Date/time: 5-12-2009, 2227 UTC
Remarks: Beacon "P" Contr: (AB)

4557.8 MX Mode: CW Date/time: 6-12-2009, 2116 UTC
Remarks: Cluster beacon "P" Contr: (AB)

4557.8 MX Mode: CW Date/time: 9-12-2009, 2102 UTC
Remarks: Beacon "P" Contr: (PPA)

4557.8 MX Mode: CW Date/time: 16-12-2009, 2132 UTC
Remarks: Beacon "P" Contr: (AB)

4557.8 MX Mode: CW Date/time: 22-12-2009, 2310 UTC
Remarks: Channel marker "P" Contr: (TJ)

4557.8 MX Mode: CW Date/time: 29-12-2009, 2117 UTC
Remarks: P: Rus Navy Kaliningrad RUS Contr: (WP3)

4557.9 MX Mode: CW Date/time: 5-12-2009, 2227 UTC
Remarks: Beacon "S" Contr: (AB)

4557.9 MX Mode: CW Date/time: 29-12-2009, 2117 UTC
Remarks: S: Rus Navy Severomorsk RUS Contr: (WP3)

4580 S06 Mode: AM Date/time: Wed 23-12-2009, 1230 UTC
Remarks: 967 weak Contr: (HFD)

4619 M42 Mode: FSK 200/1000 Date/time: 22-12-2009, 2212 UTC
Remarks: Russian Gov/Intel. Contr: (linkz)

4625 S28 Mode: AM Date/time: 6-12-2009, 2118 UTC
Remarks: Buzzer Contr: (AB)

4625 S28 Mode: AM Date/time: 12-12-2009, 1950 UTC
Remarks: Buzzer Contr: (AB)

4625 S28 Mode: AM Date/time: 16-12-2009, 2144 UTC
Remarks: Buzzer Contr: (AB)

4625 S28 Mode: AM Date/time: 22-12-2009, 1929 UTC
Remarks: Buzzer channel marker Contr: (TJ)

4792 G06 Mode: AM Date/time: Fri 25-12-2009, 1935 UTC
Remarks: ip Contr: (HFD)

4880 E10 Mode: AM Date/time: Thu 10-12-2009, 1630 UTC
Remarks: ULX2 Contr: (FN)

4880.0 E10 Mode: USB Date/time: Thu 31-12-2009, 0200 UTC

		Remarks: ip Contr: (W0ESE)
4909	E11	Mode: AM Date/time: Tue 1-12-2009, 0605 UTC Remarks: 517/00 Contr: (HFD)
4951.5	M21	Mode: CW Date/time: 7-12-2009, 1917 UTC Remarks: Air Defense PV0. Tracking results and time Contr: (FN)
4951.5	M21	Mode: CW Date/time: 12-12-2009, 1856 UTC Remarks: Russian Air Defence. "=992156??t?????" Contr: (PPA)
4968	XPA	Mode: AM Date/time: Tue 1-12-2009, 2120 UTC Remarks: msg Contr: (HFD)
5043	M12	Mode: CW Date/time: Tue 1-12-2009, 0500 UTC Remarks: 408:0 Contr: (HFD)
5133.7	MX	Mode: AM Date/time: Wed 9-12-2009, 2121 UTC Remarks: "D" Sevastopol Contr: (HFD)
5133.8	MX	Mode: AM Date/time: Wed 9-12-2009, 2120 UTC Remarks: "P" Kaliningrad Contr: (HFD)
5135.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 0100 UTC Remarks: SSSL atencion: 56732 53331 13861 Contr: (wesltli)
5139.5	M21	Mode: CW Date/time: 16-12-2009, 1936 UTC Remarks: Russian Air Defence. =99?2236?9????? Contr: (PPA)
5139.7	M21	Mode: CW Date/time: 24-12-2009, 2007 UTC Remarks: Russian Air Defense. "796T6652959T6 =12375 Contr: (MSM)
5146	E07	Mode: AM Date/time: 3-12-2009, 0530 UTC Remarks: 188 000 in USB not the normal AM TX Contr: (XSH)
5146	E07a	Mode: AM Date/time: Thu 3-12-2009, 0530 UTC Remarks: 188:0 Contr: (HFD)
5153.7	MX	Mode: CW Date/time: 6-12-2009, 2116 UTC Remarks: Cluster beacon "D" Contr: (AB)
5153.7	MX	Mode: CW Date/time: 11-12-2009, 0541 UTC Remarks: Beacon "D" Sevastopol Contr: (Jon-FL)
5153.7	MX	Mode: CW Date/time: 16-12-2009, 2132 UTC Remarks: Beacon "D" Contr: (AB)
5153.7	MX	Mode: CW Date/time: 20-12-2009, 2319 UTC Remarks: Beacon "D" Contr: (TJ)
5153.7	MX	Mode: CW Date/time: 22-12-2009, 1909 UTC Remarks: Beacon "D". Spurious? output on 5154.14 kHz Contr: (MPJ)
5153.7	MX	Mode: CW Date/time: 29-12-2009, 2140 UTC Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)
5153.8	MX	Mode: CW Date/time: 5-12-2009, 2227 UTC Remarks: Beacon "P" Contr: (AB)
5153.8	MX	Mode: CW Date/time: 6-12-2009, 2116 UTC Remarks: Cluster beacon "P" Contr: (AB)
5153.8	MX	Mode: CW Date/time: 9-12-2009, 2020 UTC

		Remarks: Beacon "P" Contr: (PPA)
5153.8	MX	Mode: CW Date/time: 11-12-2009, 0541 UTC Remarks: Beacon "P" Kaliningrad Contr: (Jon-FL)
5153.8	MX	Mode: CW Date/time: 16-12-2009, 2132 UTC Remarks: Beacon "P" Contr: (AB)
5153.8	MX	Mode: CW Date/time: 22-12-2009, 1624 UTC Remarks: Beacon "P" Contr: (MPJ)
5153.8	MX	Mode: CW Date/time: 22-12-2009, 1901 UTC Remarks: Beacon "P" Contr: (MPJ)
5153.8	MX	Mode: CW Date/time: 22-12-2009, 2319 UTC Remarks: Beacon "P" Contr: (TJ)
5153.8	MX	Mode: CW Date/time: 29-12-2009, 2140 UTC Remarks: P: Rus Navy Kaliningrad RUS Contr: (WP3)
5180.0	M08a	Mode: MCW Date/time: Sun 20-12-2009, 0530 UTC Remarks: morse code Contr: (ANY)
5182	S06	Mode: AM Date/time: Mon 14-12-2009, 2215 UTC Remarks: 632:0 Contr: (HFD)
5230	E10	Mode: AM Date/time: 14-12-2009, 1530 UTC Remarks: ULX1 Contr: (MUK)
5234	E07	Mode: AM Date/time: Thu 24-12-2009, 0800 UTC Remarks: 278:0 Contr: (HFD)
5278	E07	Mode: AM Date/time: 14-12-2009, 2147 UTC Remarks: EE/OM Contr: (linkz)
5278	E07	Mode: AM Date/time: 28-12-2009, 2046 UTC Remarks: 472 472 472 1 Contr: (linkz)
5312	M12	Mode: CW Date/time: Wed 9-12-2009, 2200 UTC Remarks: 350:0 Contr: (HFD)
5358	E11	Mode: AM Date/time: Thu 17-12-2009, 0755 UTC Remarks: 438/00 Contr: (HFD)
5402.5	M41	Mode: CW Date/time: 13-12-2009, 1428 UTC Remarks: PV0/Russian Air Defence. Figure-strings wi Contr: (ALF)
5408	M42	Mode: Baudot 186.4/500 Date/time: 8-12-2009, 1605 UTC Remarks: Russian Gov/Intel. Repeating letter groups Contr: (FN)
5417.0	V02a	Mode: AM Date/time: Fri 25-12-2009, 0200 UTC Remarks: SSYL atencion: 14611 30201 14832 weak Contr: (wesltli)
5425	XPA	Mode: AM Date/time: Tue 1-12-2009, 2100 UTC Remarks: msg Contr: (HFD)
5435	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: ART gc 112 txt JINWP Contr: (FN)
5435	E10	Mode: AM Date/time: Thu 10-12-2009, 1600 UTC Remarks: ART gc 94 txt CYIFB Contr: (FN)
5448	S30	Mode: AM Date/time: Thu 3-12-2009, 0825 UTC Remarks: The Pip Contr: (FN)
5465.9	MX	Mode: CW Date/time: 16-12-2009, 2146 UTC Remarks: Channel marker "R" Contr: (AB)

5466.1	MX	Mode: CW Date/time: 29-12-2009, 2143 UTC Remarks: R: Rus Navy Izhevsk RUS Contr: (WP3)
5738	M12	Mode: CW Date/time: Tue 8-12-2009, 0520 UTC Remarks: 678:0 Contr: (HFD)
5800.0	M08a	Mode: MCW Date/time: Tue 1-12-2009, 0600 UTC Remarks: 5f cut nums: 50011 25401 45051 Strong signal. Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Thu 3-12-2009, 0600 UTC Remarks: 5f cut nums: 68372 75772 46462 Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Sat 5-12-2009, 0600 UTC Remarks: 5f cut nums: 56612 85162 70821 Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Mon 7-12-2009, 0600 UTC Remarks: 5f cut nums Contr: (wesltli)
5800.0	M08a	Mode: AM Date/time: Tue 8-12-2009, 0600 UTC Remarks: In Progress Contr: (GS)
5800.0	M08a	Mode: MCW Date/time: Tue 8-12-2009, 0600 UTC Remarks: 5f cut nums: 37421 86322 01512 Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Thu 10-12-2009, 0600 UTC Remarks: 5f cut nums: 23402 50111 23801 Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 0600 UTC Remarks: 5f cut nums: 60281 Up late, already passing msg. Good sig Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Tue 15-12-2009, 0600 UTC Remarks: 5f cut nums: 04781 34002 10612 strong signal Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Mon 21-12-2009, 0600 UTC Remarks: 5f cut nums: 70552 10201 47252 strong signal. Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Tue 22-12-2009, 0600 UTC Remarks: 5f cut nums: 55722 64621 12552 Good signal. Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Thu 24-12-2009, 0600 UTC Remarks: 5f cut nums: 26432 64721 60242 Contr: (wesltli)
5800.0	M08a	Mode: MCW Date/time: Sat 26-12-2009, 0600 UTC Remarks: 5f cut nums: Up late, already in progress. Good signal. Contr: (wesltli)
5800.0	M08a	Mode: AM Date/time: Tue 29-12-2009, 0600 UTC Remarks: In Progress Contr: (GS)
5800.0	M08a	Mode: MCW Date/time: Tue 29-12-2009, 0600 UTC Remarks: 5f cut nums: 48761 51672 08552 Good signal. Contr: (wesltli)
5800.0	M08a	Mode: AM Date/time: Thu 31-12-2009, 0600 UTC Remarks: In Progress Contr: (GS)
5800.0	M08a	Mode: MCW Date/time: Thu 31-12-2009, 0600 UTC Remarks: 5f cut nums: 41501 54242 21682 Good signal. Contr: (wesltli)
5800.0	V02a	Mode: AM Date/time: Thu 24-12-2009, 0800 UTC Remarks: SSYL atencion: 02461 35881 60622 should have

been on 5898. Good signal. Contr: (wesltli)
 5800.0 V02a Mode: AM Date/time: Thu 31-12-2009, 0700 UTC
 Remarks: A 11782 34142 12832 Contr: (GS)
 5810 M01b Mode: CW Date/time: Fri 18-12-2009, 1615 UTC
 Remarks: ip Contr: (HFD)
 5810 M08a Mode: CW Date/time: 27-12-2009, 0500 UTC
 Remarks: Starts with an empty carrier for a few min Contr:
 (TS)
 5810 M08a Mode: CW Date/time: 27-12-2009, 0600 UTC
 Remarks: Another sked followed at 0600 but without Contr:
 (TS)
 5810.0 M08a Mode: MCW Date/time: Fri 4-12-2009, 0600 UTC
 Remarks: 5f cut nums: 01571 13001 28302 Contr: (wesltli)
 5810.0 M08a Mode: MCW Date/time: Sun 6-12-2009, 0600 UTC
 Remarks: 5f cut nums: 93481 25841 54402 Contr: (wesltli)
 5810.0 M08a Mode: MCW Date/time: Thu 10-12-2009, 0600 UTC
 Remarks: Morse code. Up 2 minutes early. Fading signal.
 Contr: (TLA)
 5810.0 M08a Mode: MCW Date/time: Fri 11-12-2009, 0600 UTC
 Remarks: 5f cut nums: 60182 81122 80602 Contr: (wesltli)
 5810.0 M08a Mode: MCW Date/time: Sun 13-12-2009, 0503 UTC
 Remarks: Carrier present bt 0503z but no xmsn Contr: (MS)
 5810.0 M08a Mode: MCW Date/time: Sun 13-12-2009, 0600 UTC
 Remarks: 31361 48442 07512 Contr: (MS)
 5810.0 M08a Mode: MCW Date/time: Fri 18-12-2009, 0500 UTC
 Remarks: 5f cut nums: 83112 14012 80382 Good signal.
 Contr: (wesltli)
 5810.0 M08a Mode: AM Date/time: Fri 18-12-2009, 0600 UTC
 Remarks: In Progress Contr: (GS)
 5810.0 M08a Mode: MCW Date/time: Fri 18-12-2009, 0600 UTC
 Remarks: 5f cut nums: 83112 14012 80382 Good signal.
 Contr: (wesltli)
 5810.0 M08a Mode: MCW Date/time: Sun 20-12-2009, 0500 UTC
 Remarks: 5f cut nums: Up late, already in progress.
 Contr: (wesltli)
 5810.0 M08a Mode: AM Date/time: Sun 20-12-2009, 0600 UTC
 Remarks: morse code Contr: (JNY)
 5810.0 M08a Mode: MCW Date/time: Sun 20-12-2009, 0600 UTC
 Remarks: 5f cut nums: 69651 54762 36742 Good signal
 Contr: (wesltli)
 5810.0 M08a Mode: MCW Date/time: Sun 27-12-2009, 0500 UTC
 Remarks: 09881 13052 (Late start for station at 0508z, in
 progress.) Contr: (MS)
 5810.0 M08a Mode: MCW Date/time: Sun 27-12-2009, 0600 UTC
 Remarks: 5f cut nums: 09881 18781 75531 Very good
 signal. Contr: (wesltli)
 5810.0 M08a Mode: MCW Date/time: Sun 27-12-2009, 0600 UTC
 Remarks: 09881 18781 75531 (Note the indentifier positions

and the identifiers have changed) Contr: (MS)

5810.0 SK01 Mode: RDFT Date/time: Wed 9-12-2009, 0700 UTC
Remarks: Messages Contr: (MS)

5810.0 SK01 Mode: AM Date/time: Fri 25-12-2009, 0600 UTC
Remarks: Carrier up on time, but no xmsn by 0630z Contr: (MS)

5822.0 M08a Mode: MCW Date/time: Mon 28-12-2009, 0600 UTC
Remarks: 5f cut nums: 05811 80372 86551 Good sig.
Contr: (wesltli)

5836 E07 Mode: AM Date/time: Wed 2-12-2009, 1820 UTC
Remarks: 989:0 Contr: (HFD)

5843 M12 Mode: AM Date/time: Tue 1-12-2009, 0520 UTC
Remarks: 408:0 Contr: (HFD)

5846 E07 Mode: AM Date/time: 3-12-2009, 0550 UTC
Remarks: 188 000 in USB not the normal AM TX Contr: (XSH)

5846 E07a Mode: AM Date/time: Thu 3-12-2009, 0550 UTC
Remarks: 188:0 Contr: (HFD)

5864 XPA Mode: AM Date/time: Tue 1-12-2009, 1940 UTC
Remarks: msg Contr: (HFD)

5866.5 M42 Mode: CROWD36 Date/time: 4-12-2009, 1003 UTC
Remarks: Russian Gov/Intel. "RNCTLHPOGMV DWOX"
Contr: (BCI)

5883.0 V02a Mode: AM Date/time: Tue 1-12-2009, 0700 UTC
Remarks: SSYL atencion: 84441 26071 85781 Strong signal. Contr: (wesltli)

5883.0 V02a Mode: AM Date/time: Thu 3-12-2009, 0700 UTC
Remarks: SSYL atencion: 65512 85442 43021 weak Contr: (wesltli)

5883.0 V02a Mode: AM Date/time: Fri 4-12-2009, 0700 UTC
Remarks: SSYL atencion: 48631 25882 76881 Contr: (wesltli)

5883.0 V02a Mode: AM Date/time: Sat 5-12-2009, 0700 UTC
Remarks: SSYL atencion: 41651 58372 71311 Contr: (wesltli)

5883.0 V02a Mode: AM Date/time: Sun 6-12-2009, 0700 UTC
Remarks: SSYL atencion: 62882 84841 32550 weak Contr: (wesltli)

5883.0 V02a Mode: AM Date/time: Mon 7-12-2009, 0700 UTC
Remarks: SSYL atencion: 64201 72541 20472 Contr: (wesltli)

5883.0 V02a Mode: USB Date/time: Mon 7-12-2009, 0700 UTC
Remarks: 34201 72541 20472 Contr: (GS)

5883.0 V02a Mode: USB Date/time: Thu 10-12-2009, 0700 UTC
Remarks: In Progress Contr: (GS)

5883.0 V02a Mode: AM Date/time: Thu 10-12-2009, 0700 UTC
Remarks: SSYL atencion: 74112 76482 70111 Good sig.
Contr: (wesltli)

5883.0 V02a Mode: AM Date/time: Fri 11-12-2009, 0700 UTC

		Remarks: SSYL atencion: 64372 54612 20151 strong signal Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Sat 12-12-2009, 0700 UTC Remarks: SSYL atencion: 04512 37032 32251 Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Mon 14-12-2009, 0700 UTC Remarks: Attencion 28222 74331 46231 Contr: (GS)
5883.0	V02a	Mode: AM Date/time: Tue 15-12-2009, 0700 UTC Remarks: SSYL: strong signal but late getting started. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Fri 18-12-2009, 0700 UTC Remarks: A 52211 12812 05852 Contr: (GS)
5883.0	V02a	Mode: AM Date/time: Fri 18-12-2009, 0700 UTC Remarks: SSYL atencion: 52211 16812 05852 Very good signal. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Sat 19-12-2009, 0700 UTC Remarks: SSYL atencion: 62802 32042 55071 Good signal Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Sat 19-12-2009, 0700 UTC Remarks: In Progress Contr: (GS)
5883.0	V02a	Mode: AM Date/time: Sun 20-12-2009, 0700 UTC Remarks: SSYL: Up late, already in progress. Very strong signal. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Mon 21-12-2009, 0700 UTC Remarks: SSYL atencion: 25551 16641 53082 strong signal. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Tue 22-12-2009, 0700 UTC Remarks: SSYL atencion: 60611 00681 63571 Good signal. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Tue 22-12-2009, 0700 UTC Remarks: A 60611 00681 63571 (YL/SS) Contr: (MS)
5883.0	V02a	Mode: AM Date/time: Fri 25-12-2009, 0700 UTC Remarks: SSYL: Up late, already passing tfc. Good sig. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Fri 25-12-2009, 0700 UTC Remarks: Atencion Contr: (ANY)
5883.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 0700 UTC Remarks: SSYL atencion: 30721 62672 67252 Very good signal. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Sun 27-12-2009, 0700 UTC Remarks: SSYL: Up late, caught late. Very good signal. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 0700 UTC Remarks: SSYL: Up late, caught late. Good sig. Contr: (wesltli)
5883.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 0700 UTC Remarks: SSYL atencion: 02181 05322 70812 Good signal. Contr: (wesltli)

5883.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 0700 UTC Remarks: In Progress Contr: (GS)
5883.0	V02a	Mode: AM Date/time: Thu 31-12-2009, 0700 UTC Remarks: SSYL: up late, caught late. Contr: (wesltli)
5888	M12	Mode: CW Date/time: Tue 1-12-2009, 0510 UTC Remarks: 897:0 Contr: (HFD)
5898.0	M08a	Mode: MCW Date/time: Tue 1-12-2009, 0500 UTC Remarks: 5f cut nums: 45051 up late already passing tfc. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Thu 3-12-2009, 0500 UTC Remarks: 5f cut nums: up late, caught late; already in progress. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Fri 4-12-2009, 0500 UTC Remarks: 5f cut nums: 01571 13001 28302 Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Sat 5-12-2009, 0500 UTC Remarks: 5f cut nums: 56612 85162 70821 Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Sun 6-12-2009, 0500 UTC Remarks: 5f cut nums: up late, caught late. Already sending msgs. Contr: (wesltli)
5898.0	M08a	Mode: AM Date/time: Mon 7-12-2009, 0500 UTC Remarks: In Progress Contr: (GS)
5898.0	M08a	Mode: MCW Date/time: Mon 7-12-2009, 0500 UTC Remarks: 5f cut nums: 65141 01871 03071 up late Contr: (wesltli)
5898.0	M08a	Mode: AM Date/time: Mon 7-12-2009, 0600 UTC Remarks: In Progress Contr: (GS)
5898.0	M08a	Mode: MCW Date/time: Mon 7-12-2009, 0600 UTC Remarks: 5f cut nums: 65141 01871 03071 Should have been on 5800. Contr: (wesltli)
5898.0	M08a	Mode: AM Date/time: Tue 8-12-2009, 0500 UTC Remarks: In Progress Contr: (GS)
5898.0	M08a	Mode: MCW Date/time: Tue 8-12-2009, 0500 UTC Remarks: 5f cut nums: Up late, already passing tfc. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Thu 10-12-2009, 0500 UTC Remarks: 5f cut nums: up late. Already sending tfc. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 0500 UTC Remarks: 5f cut nums: 31382 60281 22831 good signal. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 0500 UTC Remarks: 31382 60281 22831 Contr: (MS)
5898.0	M08a	Mode: AM Date/time: Mon 14-12-2009, 0500 UTC Remarks: In Progress Contr: (GS)
5898.0	M08a	Mode: MCW Date/time: Mon 14-12-2009, 0500 UTC Remarks: 5f cut nums: 16551 46862 83002 strong, clear signal. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Tue 15-12-2009, 0500 UTC

		Remarks: 5f cut nums: up late, already engaged in msg acty. Contr: (wesltli)
5898.0	M08a	Mode: AM Date/time: Thu 17-12-2009, 0500 UTC Remarks: In Progress Contr: (GS)
5898.0	M08a	Mode: MCW Date/time: Mon 21-12-2009, 0500 UTC Remarks: 5f cut nums: sent tfc for about 1 minute around 0531z. Nothing else. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Tue 22-12-2009, 0500 UTC Remarks: 5f cut nums: 64621 up late. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Sat 26-12-2009, 0500 UTC Remarks: 5f cut nums: 65302 43841 85701 Good signal. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Sun 27-12-2009, 0500 UTC Remarks: 5f cut nums: Up late, caught late. Good signal. Contr: (wesltli)
5898.0	M08a	Mode: MCW Date/time: Mon 28-12-2009, 0500 UTC Remarks: 5f cut nums: 05811 Missed callup. Good sig. Contr: (wesltli)
5898.0	M08a	Mode: AM Date/time: Mon 28-12-2009, 0500 UTC Remarks: In Progress Contr: (GS)
5898.0	M08a	Mode: MCW Date/time: Tue 29-12-2009, 0500 UTC Remarks: 5f cut nums: 48761 51672 08552 Good signal. Contr: (wesltli)
5898.0	M08a	Mode: AM Date/time: Thu 31-12-2009, 0500 UTC Remarks: In Progress Contr: (GS)
5898.0	M08a	Mode: MCW Date/time: Thu 31-12-2009, 0500 UTC Remarks: 5f cut nums: 41501 54242 21682 Good signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Tue 1-12-2009, 0800 UTC Remarks: SSYL atencion: 84441 26071 85781 Strong signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Thu 3-12-2009, 0800 UTC Remarks: SSYL atencion: 65512 85442 43021 Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Fri 4-12-2009, 0800 UTC Remarks: SSYL atencion: 48631 25882 76881 Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Sat 5-12-2009, 0800 UTC Remarks: SSYL: 5 fig up late already in progress. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Sun 6-12-2009, 0800 UTC Remarks: SSYL atencion: 62882 52331 18062 Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Mon 7-12-2009, 0800 UTC Remarks: SSYL atencion: 64201 72541 20472 Contr: (wesltli)
5898.0	V02a	Mode: USB Date/time: Tue 8-12-2009, 0800 UTC

		Remarks: In Progress Contr: (GS)
5898.0	V02a	Mode: AM Date/time: Tue 8-12-2009, 0800 UTC Remarks: SSYL atencion: 60341 77061 00142 Stops after one set of calls then picks up lateron Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Thu 10-12-2009, 0800 UTC Remarks: SSYL atencion: 74112 76482 70111 weak sig. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Fri 11-12-2009, 0800 UTC Remarks: SSYL atencion: 64372 54612 20151 strong signal Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Sat 12-12-2009, 0800 UTC Remarks: SSYL atencion: 04512 37032 32251 Good signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Mon 14-12-2009, 0800 UTC Remarks: Attencion 28222 74331 46231 Contr: (GS)
5898.0	V02a	Mode: AM Date/time: Tue 15-12-2009, 0800 UTC Remarks: SSYL atencion: 10841 54501 86271 strong signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Tue 15-12-2009, 0800 UTC Remarks: In Progress Contr: (GS)
5898.0	V02a	Mode: AM Date/time: Fri 18-12-2009, 0800 UTC Remarks: SSYL atencion: 52211 16812 05852 Very good signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Sat 19-12-2009, 0800 UTC Remarks: SSYL atencion: 62802 32042 55071 Good signal Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Sat 19-12-2009, 0800 UTC Remarks: spanish Contr: (ANY)
5898.0	V02a	Mode: AM Date/time: Sat 19-12-2009, 0800 UTC Remarks: In Progress Contr: (GS)
5898.0	V02a	Mode: AM Date/time: Mon 21-12-2009, 0800 UTC Remarks: SSYL atencion: 25551 16641 53082 strong signal with some fades. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Tue 22-12-2009, 0800 UTC Remarks: SSYL atencion: 60611 00681 63571 Good signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Thu 24-12-2009, 0800 UTC Remarks: SSYL: up late already progress. Good signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Fri 25-12-2009, 0800 UTC Remarks: SSYL: 44252 Up early, caught late, preparing 1st msg. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 0800 UTC Remarks: SSYL atencion: 30721 62672 67252 good signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Sun 27-12-2009, 0800 UTC Remarks: SSYL atencion: 54872 76841 47611 good signal. Contr: (wesltli)

5898.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 0800 UTC Remarks: In Progress Contr: (GS)
5898.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 0800 UTC Remarks: SSYL atencion: 43231 74382 70652 Good sig. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 0800 UTC Remarks: SSYL atencion: 02181 05322 70812 Good signal. Contr: (wesltli)
5898.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 0800 UTC Remarks: A 02181 05322 70812 Contr: (GS)
5898.0	V02a	Mode: AM Date/time: Thu 31-12-2009, 0800 UTC Remarks: A 11782 34142 12832 Contr: (GS)
5898.0	V02a	Mode: AM Date/time: Thu 31-12-2009, 0800 UTC Remarks: SSYL atencion: 11782 34142 12862 Contr: (wesltli)
5930.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 0930 UTC Remarks: Messages Contr: (MS)
5947.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 0900 UTC Remarks: Messages Contr: (MS)
6270	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: ULX gc 45 txt CXRQR Contr: (FN)
6270	E10	Mode: AM Date/time: Wed 2-12-2009, 1401 UTC Remarks: ULX gc 8 txt DYQKP MVAZZ VFCDT FSVXU AQZWG UGZWG GVXDZ SCGPU Contr: (FN)
6270	E10	Mode: AM Date/time: Thu 3-12-2009, 0730 UTC Remarks: ULX2 Contr: (FN)
6270	E10	Mode: AM Date/time: Thu 3-12-2009, 0800 UTC Remarks: ULX2 Contr: (FN)
6270	E10	Mode: AM Date/time: Fri 11-12-2009, 1300 UTC Remarks: ULX2 Contr: (FN)
6270	E10	Mode: AM Date/time: Mon 14-12-2009, 0830 UTC Remarks: ULX2 Contr: (FN)
6270	E10	Mode: AM Date/time: Wed 16-12-2009, 0800 UTC Remarks: ULX2 Contr: (FN)
6370	E10	Mode: AM Date/time: Thu 3-12-2009, 0930 UTC Remarks: YHF2 Contr: (FN)
6370	E10	Mode: AM Date/time: Thu 3-12-2009, 1030 UTC Remarks: YHF with message Contr: (FN)
6433	S11a	Mode: AM Date/time: Wed 9-12-2009, 0950 UTC Remarks: 221/00 Contr: (HFD)
6447.0	XSL	Mode: LSB Date/time: Sun 6-12-2009, 1056 UTC Remarks: Slot Machine in progress. Very strong signal. Contr: (TLA)
6498	E10	Mode: AM Date/time: Thu 10-12-2009, 1600 UTC Remarks: PCD2 Contr: (FN)
6668	S06	Mode: AM Date/time: Mon 7-12-2009, 1610 UTC Remarks: 176 Contr: (HFD)
6777	E07	Mode: AM Date/time: Thu 3-12-2009, 2110 UTC

		Remarks: 744:0 Contr: (HFD)
6778	E07	Mode: AM Date/time: 30-12-2009, 2027 UTC Remarks: in progress Contr: (linkz)
6801.5	M42	Mode: CROWD36 Date/time: 7-12-2009, 1651 UTC Remarks: Russian Gov/Intel. Contr: (BCI)
6805	E06	Mode: AM Date/time: Tue 8-12-2009, 2000 UTC Remarks: 652:0 Contr: (HFD)
6823.5	M21	Mode: CW Date/time: 17-12-2009, 0537 UTC Remarks: PV0/Russian Air Defence. Tracking plots & Contr: (ALF)
6835	S06	Mode: AM Date/time: Mon 14-12-2009, 2115 UTC Remarks: 632:0 Contr: (HFD)
6835	S06	Mode: USB Date/time: 14-12-2009, 2118 UTC Remarks: RR/OM 632 632 632 000000 Contr: (linkz)
6835	S06	Mode: AM Date/time: 28-12-2009, 2120 UTC Remarks: 632 632 632 000000 Contr: (linkz)
6835.5	M42	Mode: CROWD36 Date/time: 30-11-2009, 2043 UTC Remarks: Russian Gov/Intel. "VNWGZYDLU VCRMWSDABHZJ Contr: (BCI)
6840	E10	Mode: AM Date/time: Wed 2-12-2009, 1001 UTC Remarks: EZI gc 19 txt HFVMK Contr: (FN)
6840	E10	Mode: AM Date/time: Wed 2-12-2009, 1401 UTC Remarks: EZI1 Contr: (FN)
6840	E10	Mode: AM Date/time: Thu 3-12-2009, 0900 UTC Remarks: EZI gc 28 txt MBBSU Contr: (FN)
6840	E10	Mode: AM Date/time: Thu 3-12-2009, 0930 UTC Remarks: EZI2 Contr: (FN)
6840	E10	Mode: AM Date/time: Thu 10-12-2009, 1600 UTC Remarks: EZI2 Contr: (FN)
6840	E10	Mode: AM Date/time: Thu 10-12-2009, 1630 UTC Remarks: PCD gc 30 txt LRGIV Contr: (FN)
6840	E10	Mode: AM Date/time: Fri 11-12-2009, 1300 UTC Remarks: EZI2 Contr: (FN)
6840	E10	Mode: AM Date/time: Fri 11-12-2009, 1330 UTC Remarks: EZI2 Contr: (FN)
6840	E10	Mode: AM Date/time: Mon 14-12-2009, 0830 UTC Remarks: EZI gc 22 txt DBRSS Contr: (FN)
6840	E10	Mode: AM Date/time: Wed 16-12-2009, 0730 UTC Remarks: EZI gc 79 txt TXVTX Contr: (FN)
6840.0	E10	Mode: USB Date/time: Thu 31-12-2009, 0003 UTC Remarks: Contr: (W0ESE)
6855.0	V02a	Mode: AM Date/time: Tue 1-12-2009, 2100 UTC Remarks: A 66101 32812 63801 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Wed 2-12-2009, 2100 UTC Remarks: A 73032 50871 10161 YL/SS. Different callups than the 2000z primary sked Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Thu 3-12-2009, 2100 UTC Remarks: A 15101 43381 80421 (YL/SS) Contr: (MS)

6855.0	V02a	Mode: AM Date/time: Fri 4-12-2009, 2100 UTC Remarks: SSSL: barely audible. Contr: (wesltli)
6855.0	V02a	Mode: AM Date/time: Sat 5-12-2009, 2100 UTC Remarks: A 50732 06181 32002 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: USB Date/time: Mon 7-12-2009, 2100 UTC Remarks: In Progress Contr: (GS)
6855.0	V02a	Mode: AM Date/time: Mon 7-12-2009, 2100 UTC Remarks: A 11711 81552 63452 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Wed 9-12-2009, 2100 UTC Remarks: A 53482 53152 00282 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Thu 10-12-2009, 2100 UTC Remarks: A 16761 76271 27481 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Fri 11-12-2009, 2100 UTC Remarks: A 37561 31342 (Stops then changes callups.) A 37172 40061 28772 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Sat 12-12-2009, 2100 UTC Remarks: A 10851 58062 70282 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Mon 14-12-2009, 0300 UTC Remarks: SSSL atencion: 74801 18232 13751 Contr: (wesltli)
6855.0	V02a	Mode: AM Date/time: Mon 14-12-2009, 2100 UTC Remarks: A 37461 14262 86482 (YL/SS) Note the identifiers are different from primary sked Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Tue 15-12-2009, 2100 UTC Remarks: A 47372 71571 31232 (YL/SS) Using different identifiers from primary sked Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Wed 16-12-2009, 2100 UTC Remarks: A 70171 08031 28312 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Thu 17-12-2009, 2100 UTC Remarks: A 52612 72642 14002 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Fri 18-12-2009, 2100 UTC Remarks: (Carrier present on time, but no xmsn by 2135z.) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Sat 19-12-2009, 2100 UTC Remarks: A 46542 15861 86232 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Sun 20-12-2009, 2100 UTC Remarks: A 55671 71552 62662 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Sun 20-12-2009, 2100 UTC Remarks: SSSL atencion: 55671 71552 62662 Very weak Contr: (wesltli)
6855.0	V02a	Mode: AM Date/time: Sun 20-12-2009, 2118 UTC Remarks: weak signal, barely readable. Contr: (TT)
6855.0	V02a	Mode: AM Date/time: Mon 21-12-2009, 2100 UTC Remarks: A 56801 54822 74312 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Tue 22-12-2009, 2100 UTC Remarks: A 86382 73382 00871 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Thu 24-12-2009, 0021 UTC Remarks: Contr: (SB2)

6855.0	V02a	Mode: AM Date/time: Thu 24-12-2009, 2100 UTC Remarks: SSYL atencion: 68111 83882 61751 Contr: (wesltli)
6855.0	V02a	Mode: AM Date/time: Fri 25-12-2009, 2100 UTC Remarks: Missed the start - strong signal Contr: (WR)
6855.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 2100 UTC Remarks: A 02351 14381 38721 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 0300 UTC Remarks: SSYL: up late, already in progress. Contr: (wesltli)
6855.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 2100 UTC Remarks: A 45282 02432 73021 Contr: (GS)
6855.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 2100 UTC Remarks: A 45282 02432 76021 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 2100 UTC Remarks: A 47241 28202 03812 Contr: (GS)
6855.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 2100 UTC Remarks: A 47641 28602 03812 (YL/SS) Contr: (MS)
6855.0	V02a	Mode: AM Date/time: Wed 30-12-2009, 2100 UTC Remarks: Contr: (W0ESE)
6855.0	V02a	Mode: AM Date/time: Wed 30-12-2009, 2100 UTC Remarks: A I came into sked late and missed all identifiers.) Contr: (MS)
6873.5	M42	Mode: CROWD36 Date/time: 23-12-2009, 1705 UTC Remarks: Russian Gov/Intel. "DJNFCKTZYPQOBG RMLAWWA Contr: (BCI)
6932.0	M08a	Mode: CW Date/time: Wed 2-12-2009, 2100 UTC Remarks: 40762 77251 76531 Contr: (MS)
6952	M12	Mode: CW Date/time: Tue 1-12-2009, 0530 UTC Remarks: 897:0 Contr: (HFD)
6965.5	M42	Mode: CROWD36 Date/time: 10-12-2009, 0758 UTC Remarks: Russian Gov/Intel. "VNWGZXYDLU VCXRMWSDABH Contr: (BCI)
6982	E07	Mode: AM Date/time: Wed 2-12-2009, 1800 UTC Remarks: 989:0 Contr: (HFD)
6986	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: ART gc 112 txt JINWP Contr: (FN)
6986	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: ART gc 112 txt JINWP Contr: (FN)
6986	E10	Mode: AM Date/time: Thu 3-12-2009, 0730 UTC Remarks: ART gc 22 txt UQUKI Contr: (FN)
6986	E10	Mode: AM Date/time: Thu 3-12-2009, 0800 UTC Remarks: ART gc 6 txt BTILM JGDYV AOVLO IYRQG OHFBZ PXRNY EOM Contr: (FN)
6986	E10	Mode: AM Date/time: Thu 3-12-2009, 0830 UTC Remarks: ART gc 6 txt CAMSE SHJZN PJVQO ZCMSV JWZWH VLXLV EOM Contr: (FN)
6986	E10	Mode: AM Date/time: Thu 3-12-2009, 0930 UTC

		Remarks: ART gc 51 txt ITKKY Jammer starts 0935z Contr: (FN)
6986	E10	Mode: AM Date/time: Fri 11-12-2009, 1330 UTC Remarks: ART gc 112 txt JINWP Contr: (FN)
6986	E10	Mode: AM Date/time: Mon 14-12-2009, 0730 UTC Remarks: ART gc 22 txt UQUKI Contr: (FN)
6986	E10	Mode: AM Date/time: Mon 14-12-2009, 1000 UTC Remarks: ART with message Contr: (FN)
7038.7	MX	Mode: CW Date/time: 29-12-2009, 2125 UTC Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)
7038.9	MX	Mode: CW Date/time: 5-12-2009, 2227 UTC Remarks: Beacon "S" Contr: (AB)
7038.9	MX	Mode: CW Date/time: 29-12-2009, 2117 UTC Remarks: S: Rus Navy Severomorsk RUS Contr: (WP3)
7038.9	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "S" Contr: (AB)
7039	MX	Mode: CW Date/time: 5-12-2009, 2227 UTC Remarks: Beacon "C" Contr: (AB)
7039	MX	Mode: CW Date/time: 17-12-2009, 0032 UTC Remarks: Cluster beacon "C" Contr: (TJ)
7039	MX	Mode: CW Date/time: 29-12-2009, 2125 UTC Remarks: C: Rus Navy Moscow RUS Contr: (WP3)
7039	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "C" Contr: (AB)
7039.2	MX	Mode: CW Date/time: 17-12-2009, 1500 UTC Remarks: Beacon "F" Vladivostok Contr: (AB)
7039.3	MX	Mode: CW Date/time: 17-12-2009, 1500 UTC Remarks: Beacon "K" Petropavlovsk Contr: (AB)
7150	S06	Mode: AM Date/time: Fri 11-12-2009, 0700 UTC Remarks: 196 Contr: (HFD)
7364	XPA	Mode: AM Date/time: Tue 1-12-2009, 1920 UTC Remarks: msg Contr: (HFD)
7436	S06	Mode: AM Date/time: Mon 7-12-2009, 1600 UTC Remarks: 176-402/5=675#4 Contr: (HFD)
7519.0	M08a	Mode: CW Date/time: Wed 2-12-2009, 2200 UTC Remarks: 40762 77251 76531 Contr: (MS)
7519.0	M08a	Mode: AM Date/time: Mon 7-12-2009, 2200 UTC Remarks: In Progress Contr: (GS)
7519.0	M08a	Mode: CW Date/time: Mon 7-12-2009, 2200 UTC Remarks: 33582 05852 52082 Contr: (MS)
7519.0	M08a	Mode: CW Date/time: Mon 7-12-2009, 2200 UTC Remarks: 5f cut nums: extremely weak Contr: (wesltli)
7519.0	M08a	Mode: CW Date/time: Mon 14-12-2009, 2200 UTC Remarks: 00871 78681 7...1 (Heavy fading and very weak signal.) Contr: (MS)
7519.0	M08a	Mode: CW Date/time: Wed 16-12-2009, 2200 UTC Remarks: 63432 19531 (Came into sked late and missed first identifier.) Contr: (MS)

7519.0	M08a	Mode: CW Date/time: Wed 23-12-2009, 2200 UTC Remarks: 5f cut nums: 37411 02271 73061 Contr: (wesltli)
7526.0	M08a	Mode: CW Date/time: Tue 15-12-2009, 2200 UTC Remarks: (Too weak for copy.) Contr: (MS)
7545	X06	Mode: AM Date/time: 10-12-2009, 1645 UTC Remarks: Mazielka. Sequence: 564213 Contr: (XSH)
7554.0	M08a	Mode: AM Date/time: Wed 2-12-2009, 2000 UTC Remarks: In Progress//Weak Signal Contr: (GS)
7690	E10	Mode: AM Date/time: Wed 2-12-2009, 1001 UTC Remarks: EZI gc 19 txt HFVMK Contr: (FN)
7690	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: EZI2 Contr: (FN)
7690	E10	Mode: AM Date/time: Wed 2-12-2009, 1401 UTC Remarks: EZI1 Contr: (FN)
7690	E10	Mode: AM Date/time: Thu 3-12-2009, 0900 UTC Remarks: EZI gc 28 txt MBBSU Contr: (FN)
7690	E10	Mode: AM Date/time: Thu 10-12-2009, 1630 UTC Remarks: PCD gc 30 txt LRGIV Contr: (FN)
7741	M12?	Mode: CW Date/time: 5-12-2009, 1310 UTC Remarks: 787 1...657 165 then fast morse "23788 387 Contr: (PPA)
7760	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: ULX gc 45 txt CXRQR Contr: (FN)
7760	E10	Mode: AM Date/time: Wed 2-12-2009, 1401 UTC Remarks: ULX gc 8 txt DYQKP MVAZZ VFCDT FSVXU AQZWG UGZWG GVXDZ SCGPU Contr: (FN)
7760	E10	Mode: AM Date/time: Thu 3-12-2009, 0730 UTC Remarks: ULX2 Contr: (FN)
7760	E10	Mode: AM Date/time: Thu 3-12-2009, 1000 UTC Remarks: ULX gc 33 txt LBJMG Contr: (FN)
7760	E10	Mode: AM Date/time: Thu 3-12-2009, 1030 UTC Remarks: ULX gc 109 txt VJZHI Contr: (FN)
7760	E10	Mode: AM Date/time: Mon 14-12-2009, 1000 UTC Remarks: ULX2 Contr: (FN)
7804	M51	Mode: CW Date/time: 8-12-2009, 1510 UTC Remarks: French Mil Morse training messages =nr 82 Contr: (FN)
7804	M51	Mode: CW Date/time: 12-12-2009, 1231 UTC Remarks: CSTEI Favieres; via Vernon, "VVV de FAV22 Contr: (ALF)
7820	X06	Mode: AM Date/time: 17-12-2009, 1531 UTC Remarks: Mazielka. Sequence: 463125 Contr: (XSH)
7887.0	V02a	Mode: AM Date/time: Tue 1-12-2009, 2000 UTC Remarks: A 66101 32812 63801 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Wed 2-12-2009, 2000 UTC Remarks: A 72071 31411 (YL/SS. Missed the first callup.) Contr: (MS)
7887.0	V02a	Mode: USB Date/time: Wed 2-12-2009, 2000 UTC

		Remarks: In Progress//Weak Signal Contr: (GS)
7887.0	V02a	Mode: AM Date/time: Thu 3-12-2009, 2000 UTC
		Remarks: A 15101 43381 80421 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: USB Date/time: Fri 4-12-2009, 2000 UTC
		Remarks: In Progress Contr: (GS)
7887.0	V02a	Mode: AM Date/time: Mon 7-12-2009, 2000 UTC
		Remarks: A 11711 81552 63452 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: USB Date/time: Mon 7-12-2009, 2000 UTC
		Remarks: In Progress Contr: (GS)
7887.0	V02a	Mode: AM Date/time: Tue 8-12-2009, 2000 UTC
		Remarks: A 82551 71861 40821 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Wed 9-12-2009, 2000 UTC
		Remarks: A 53482 53152 00282 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Fri 11-12-2009, 2000 UTC
		Remarks: A 37561 31342 51381 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Sat 12-12-2009, 2000 UTC
		Remarks: A 10851 58062 70282 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Sun 13-12-2009, 2000 UTC
		Remarks: A 37021 57732 77112 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Mon 14-12-2009, 2000 UTC
		Remarks: A 11111 07512 13861 (YL/SS) (Note the quintet "11111" as first identifier. Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Mon 14-12-2009, 2000 UTC
		Remarks: In Progress Contr: (GS)
7887.0	V02a	Mode: AM Date/time: Tue 15-12-2009, 2000 UTC
		Remarks: A 28562 56751 33511 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Wed 16-12-2009, 2000 UTC
		Remarks: A 70171 08031 28312 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Thu 17-12-2009, 2000 UTC
		Remarks: A 52612 72642 14002 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Fri 18-12-2009, 2000 UTC
		Remarks: (Carrier present on time, but no xmsn by 2040z.) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Sat 19-12-2009, 2000 UTC
		Remarks: A 46542 15861 86232 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Sun 20-12-2009, 2000 UTC
		Remarks: A 55671 71552 62662 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Sun 20-12-2009, 2000 UTC
		Remarks: SSYL atencion: 55671 71552 62662 weak Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Mon 21-12-2009, 2000 UTC
		Remarks: A 86341 30472 37821 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Tue 22-12-2009, 2000 UTC
		Remarks: A 86382 73382 00871 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Tue 22-12-2009, 2000 UTC
		Remarks: SSYL atencion: 86382 73382 01571 Very weak. IDs questionable. Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Thu 24-12-2009, 2000 UTC

		Remarks: SSYL atencion: 04362 62411 44211 Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Fri 25-12-2009, 0020 UTC Remarks: Contr: (WR)
7887.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 2000 UTC Remarks: A 02351 14381 38721 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 2000 UTC Remarks: SSYL Barely audible. Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Sun 27-12-2009, 2000 UTC Remarks: SSYL atencion: 04701 05131 05662 Barely audible. IDs questionable. Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 2000 UTC Remarks: In Progress Contr: (GS)
7887.0	V02a	Mode: AM Date/time: Mon 28-12-2009, 2000 UTC Remarks: SSYL atencion: 45282 02432 76021 weak sig. Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 2000 UTC Remarks: A 47641 28602 03812 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 2000 UTC Remarks: In Progress Contr: (GS)
7887.0	V02a	Mode: AM Date/time: Tue 29-12-2009, 2000 UTC Remarks: SSYL atencion: 47641 28602 03812 Very weak signal. Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Wed 30-12-2009, 2000 UTC Remarks: A 67732 20402 30771 (YL/SS) Contr: (MS)
7887.0	V02a	Mode: AM Date/time: Wed 30-12-2009, 2000 UTC Remarks: SSYL atencion: 67732 20402 30771 weak with fades. Contr: (wesltli)
7887.0	V02a	Mode: AM Date/time: Thu 31-12-2009, 2000 UTC Remarks: A 35731 13871 81601 Contr: (GS)
7890.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 1030 UTC Remarks: Messages Contr: (MS)
7918	E10	Mode: AM Date/time: Wed 2-12-2009, 1401 UTC Remarks: YHF2 Contr: (FN)
7918	E10	Mode: AM Date/time: Thu 3-12-2009, 0900 UTC Remarks: YHF2 Contr: (FN)
7918	E10	Mode: AM Date/time: Wed 16-12-2009, 0900 UTC Remarks: YHF2 Contr: (FN)
7923.5	M42	Mode: CROWD36 Date/time: 7-12-2009, 1645 UTC Remarks: Russian Gov. "11177 10097 16256 812" Contr: (BCI)
7960.4	M42	Mode: CROWD36 Date/time: 16-12-2009, 1758 UTC Remarks: Russian Gov/Intel. Traffic Contr: (PPA)
7967	E07	Mode: AM Date/time: 23-12-2009, 1924 UTC Remarks: "... 10978 95112 ... 18426 95882 000 000 Contr: (MPJ)
8009.0	M08a	Mode: CW Date/time: Wed 2-12-2009, 2300 UTC Remarks: 5f cut nums: 51522 88702 10881 weak and fast.

IDs questionable. Contr: (wesltli)

8009.0	M08a	Mode: CW Date/time: Wed 2-12-2009, 2300 UTC Remarks: Signal is too weak for copy Contr: (MS)
8009.0	M08a	Mode: CW Date/time: Mon 7-12-2009, 2300 UTC Remarks: 5f cut nums: 33582 05852 52082 weak and fast. Contr: (wesltli)
8009.0	M08a	Mode: CW Date/time: Mon 7-12-2009, 2300 UTC Remarks: 33582 05852 52082 (Very weak signal.) Contr: (MS)
8009.0	M08a	Mode: CW Date/time: Thu 17-12-2009, 2200 UTC Remarks: 5f cut nums: up late already passing tfc. Contr: (wesltli)
8009.0	M08a	Mode: CW Date/time: Thu 17-12-2009, 2200 UTC Remarks: 54012 Late start for station, Came up in progress. Contr: (MS)
8009.0	M08a	Mode: CW Date/time: Wed 23-12-2009, 2300 UTC Remarks: 5f cut nums: 77001 77541 76572 Good sig. Contr: (wesltli)
8009.0	M08a	Mode: CW Date/time: Thu 24-12-2009, 2200 UTC Remarks: 5f cut nums: 03732 16061 02382 Contr: (wesltli)
8009.0	M08a	Mode: CW Date/time: Mon 28-12-2009, 2300 UTC Remarks: 5f cut nums: 30501 60302 32102 Good sig. Contr: (wesltli)
8009.0	M08a	Mode: CW Date/time: Mon 28-12-2009, 2300 UTC Remarks: 30501 302.. 3...2 (Weak signal and heavy fades.) Contr: (MS)
8017.5	M42	Mode: CROWD36 Date/time: 23-12-2009, 1749 UTC Remarks: Russian Gov/Intel. "RNCTLHPOGMV DCWOXQ" Contr: (BCI)
8096.0	M08a	Mode: CW Date/time: Wed 2-12-2009, 1400 UTC Remarks: 72831 57701 04872 Contr: (MS)
8096.0	M08a	Mode: CW Date/time: Wed 9-12-2009, 1300 UTC Remarks: 25241 41011 56001 Contr: (MS)
8096.0	M08a	Mode: CW Date/time: Wed 9-12-2009, 1400 UTC Remarks: 25241 41011 56001 Contr: (MS)
8096.0	M08a	Mode: CW Date/time: Mon 14-12-2009, 1300 UTC Remarks: 36872 21561 51551 (Very weak signal.) Contr: (MS)
8096.0	M08a	Mode: CW Date/time: Mon 14-12-2009, 1400 UTC Remarks: 36872 21561 51551 Contr: (MS)
8096.0	M08a	Mode: CW Date/time: Wed 16-12-2009, 1400 UTC Remarks: 23781 63632 84201 Contr: (MS)
8096.0	M08a	Mode: CW Date/time: Mon 21-12-2009, 1300 UTC Remarks: 26182 36851 76371 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Tue 1-12-2009, 1800 UTC Remarks: 40112 28031 (Late start for sked. In progress at 1807z.) Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Tue 1-12-2009, 1900 UTC

		Remarks: 10281 40112 28031 Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Wed 2-12-2009, 1800 UTC
		Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Wed 2-12-2009, 1800 UTC
		Remarks: 07772 78302 76032 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Wed 2-12-2009, 1900 UTC
		Remarks: 07772 78302 76032 Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Wed 2-12-2009, 1900 UTC
		Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Thu 3-12-2009, 1800 UTC
		Remarks: 63051 43161 44322 Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Thu 3-12-2009, 1800 UTC
		Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Thu 3-12-2009, 1900 UTC
		Remarks: 63051 43161 44322 Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Thu 3-12-2009, 1900 UTC
		Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Fri 4-12-2009, 1800 UTC
		Remarks: 47662 64822 (Bdcst began at 1809z, already in progress.) Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Fri 4-12-2009, 1900 UTC
		Remarks: 47681 47662 64822 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sat 5-12-2009, 1900 UTC
		Remarks: 57181 05061 45261 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sun 6-12-2009, 1800 UTC
		Remarks: Carrier up on time, but no xmsn. At 1830z could hear two OM/SS talking Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sun 6-12-2009, 1900 UTC
		Remarks: 12051 40561 (Late start for sked. Began in msg at 1903z.) Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Mon 7-12-2009, 1800 UTC
		Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Mon 7-12-2009, 1812 UTC
		Remarks: 34871 (Came in to sked late.)Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Mon 7-12-2009, 1900 UTC
		Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Fri 11-12-2009, 1800 UTC
		Remarks: 63402 61702 03852 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Fri 11-12-2009, 1900 UTC
		Remarks: 63402 61702 03852 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 1800 UTC
		Remarks: 52042 70121 52122 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 1800 UTC
		Remarks: 5f cut nums: 52042 70121 52122 Strong signal with deep fades. Contr: (wesltli)
8097.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 1900 UTC
		Remarks: 52042 70121 52122 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 1900 UTC

		Remarks: 5f cut nums: 52042 70121 52122 Weak with QRM/N and QSB. Contr: (wesltli)
8097.0	M08a	Mode: MCW Date/time: Sun 13-12-2009, 1800 UTC Remarks: 46431 44152 86122 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sun 13-12-2009, 1900 UTC Remarks: 46431 44152 86122 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Mon 14-12-2009, 1800 UTC Remarks: 63332 27311 83252 Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Mon 14-12-2009, 1800 UTC Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Mon 14-12-2009, 1900 UTC Remarks: 63332 27311 83252 Contr: (MS)
8097.0	M08a	Mode: AM Date/time: Mon 14-12-2009, 1900 UTC Remarks: In Progress Contr: (GS)
8097.0	M08a	Mode: MCW Date/time: Sat 19-12-2009, 1905 UTC Remarks: , , , , , 70022 44412 (I came in late and missed first identifier.) Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sun 20-12-2009, 1800 UTC Remarks: 5f cut nums: 86071 47881 34842 Fair sig with fades. Contr: (wesltli)
8097.0	M08a	Mode: MCW Date/time: Sun 20-12-2009, 1800 UTC Remarks: 86071 47881 34842 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Sun 20-12-2009, 1900 UTC Remarks: 5f cut nums: 86071 47881 34842 Fair sig with fades. Contr: (wesltli)
8097.0	M08a	Mode: MCW Date/time: Sun 20-12-2009, 1900 UTC Remarks: 86071 47881 34842 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Mon 21-12-2009, 1800 UTC Remarks: 72011 36371 58451 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Mon 21-12-2009, 1900 UTC Remarks: 72011 36371 58451 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Tue 22-12-2009, 1800 UTC Remarks: 30011 30641 26752 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Tue 22-12-2009, 1800 UTC Remarks: 74421 84702 85041 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Tue 22-12-2009, 1900 UTC Remarks: 74421 84702 85041 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Tue 22-12-2009, 1900 UTC Remarks: 30011 30641 26752 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Wed 23-12-2009, 1800 UTC Remarks: 5f cut nums: 30011 30641 26752 Very weak. Contr: (wesltli)
8097.0	M08a	Mode: MCW Date/time: Wed 23-12-2009, 1900 UTC Remarks: 18402 54381 31572 Contr: (MS)
8097.0	M08a	Mode: MCW Date/time: Wed 23-12-2009, 1900 UTC Remarks: 5f cut nums: 30011 30641 26752 Very weak. Contr: (wesltli)
8097.0	M08a	Mode: MCW Date/time: Thu 24-12-2009, 1800 UTC

Remarks: 5f cut nums: 18402 54381 31572 Good signal with some fading. Contr: (wesltli)

8097.0 M08a Mode: MCW Date/time: Thu 24-12-2009, 1900 UTC
Remarks: 5f cut nums: caught late, already in progress. Contr: (wesltli)

8097.0 M08a Mode: MCW Date/time: Fri 25-12-2009, 1800 UTC
Remarks: 14852 (Late start at 1808z. First Radio Habana for a few seconds Contr: (MS)

8097.0 M08a Mode: MCW Date/time: Sat 26-12-2009, 1800 UTC
Remarks: Contr: (W0ESE)

8097.0 M08a Mode: MCW Date/time: Sat 26-12-2009, 1800 UTC
Remarks: 48561 80001 80112 Contr: (MS)

8097.0 M08a Mode: MCW Date/time: Sat 26-12-2009, 1900 UTC
Remarks: 48561 80001 80112 Contr: (MS)

8097.0 M08a Mode: AM Date/time: Mon 28-12-2009, 1800 UTC
Remarks: In Progress Contr: (GS)

8097.0 M08a Mode: AM Date/time: Mon 28-12-2009, 1900 UTC
Remarks: In Progress Contr: (GS)

8097.0 M08a Mode: MCW Date/time: Mon 28-12-2009, 1900 UTC
Remarks: 5f cut nums: 62612 55371 08141 weak sig. Contr: (wesltli)

8097.0 M08a Mode: MCW Date/time: Tue 29-12-2009, 1900 UTC
Remarks: 87552 06261 43331 Contr: (MS)

8097.0 M08a Mode: MCW Date/time: Tue 29-12-2009, 1900 UTC
Remarks: 5f cut nums: 87552 06261 43331 Weak signal. Contr: (wesltli)

8097.0 M08a Mode: MCW Date/time: Wed 30-12-2009, 1800 UTC
Remarks: 78882 10841 (Carrier up on time. Xmsn began at 1814z) Contr: (MS)

8097.0 M08a Mode: MCW Date/time: Wed 30-12-2009, 1900 UTC
Remarks: 87771 78882 10841 Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Tue 8-12-2009, 1800 UTC
Remarks: Expected this to be an M8a sked. Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Tue 8-12-2009, 1900 UTC
Remarks: Expected this to be an M8a sked. Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Wed 9-12-2009, 1800 UTC
Remarks: Expected M8a here this hour. Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Wed 9-12-2009, 1900 UTC
Remarks: Expected M8a here this hour Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Tue 15-12-2009, 1800 UTC
Remarks: Messages Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Tue 15-12-2009, 1900 UTC
Remarks: Messages Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Wed 16-12-2009, 1800 UTC
Remarks: Messages Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Wed 16-12-2009, 1900 UTC
Remarks: Messages Contr: (MS)

8097.0 SK01 Mode: RDFT Date/time: Thu 17-12-2009, 1900 UTC

		Remarks: Messages Contr: (MS)
8097.0	SK01	Mode: RDFT Date/time: Fri 18-12-2009, 1800 UTC Remarks: Expected M8a sked here. Contr: (MS)
8097.0	SK01	Mode: RDFT Date/time: Fri 18-12-2009, 1900 UTC Remarks: Expected M8a sked here. Contr: (MS)
8097.0	V02a	Mode: AM Date/time: Sun 6-12-2009, 2008 UTC Remarks: A 37681 54741 (YL/SS) (Expected this sked to be on 7887m. Contr: (MS)
8105	X06	Mode: AM Date/time: 17-12-2009, 1531 UTC Remarks: Mazielka. Sequence: 314265 Contr: (XSH)
8107.5	M42	Mode: CROWD36 Date/time: 10-12-2009, 0751 UTC Remarks: Russian Gov/Intel. "RNCTLIPOGMV DYWOX" Contr: (BCI)
8110.5	M42	Mode: CROWD36 Date/time: 29-12-2009, 1702 UTC Remarks: Russian Gov. Msg after "11177 ..." Contr: (BCI)
8135.0	M08a	Mode: CW Date/time: Fri 4-12-2009, 2300 UTC Remarks: 5f cut nums: 31071 34322 08001 Contr: (wesltli)
8135.0	M08a	Mode: CW Date/time: Tue 8-12-2009, 2300 UTC Remarks: 62682 87321 15422 (Very weak signal.) Contr: (MS)
8135.0	M08a	Mode: CW Date/time: Tue 8-12-2009, 2300 UTC Remarks: 5f cut nums: 62682 87321 15422 Contr: (wesltli)
8135.0	M08a	Mode: CW Date/time: Thu 17-12-2009, 2300 UTC Remarks: Station still having xmtr problems from the hour before on 8009m at 2200z Contr: (MS)
8135.0	M08a	Mode: CW Date/time: Fri 18-12-2009, 2300 UTC Remarks: 5f cut nums: 08181 84552 85701 Contr: (wesltli)
8135.0	M08a	Mode: CW Date/time: Tue 29-12-2009, 2300 UTC Remarks: 5f cut nums: 06222 56282 64182 Good signal. Contr: (wesltli)
8147	XPA	Mode: AM Date/time: Tue 1-12-2009, 0700 UTC Remarks: msg Contr: (HFD)
8164	XPA	Mode: AM Date/time: Tue 1-12-2009, 1900 UTC Remarks: msg Contr: (HFD)
8180.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 0900 UTC Remarks: Messages Contr: (MS)
8180.0	SK01	Mode: RDFT Date/time: Tue 15-12-2009, 0900 UTC Remarks: Very Strong Signal 9+ Contr: (TLA)
8186.0	M08a	Mode: MCW Date/time: Wed 16-12-2009, 0800 UTC Remarks: 5f cut nums: caught late. Good signal. Contr: (wesltli)
8186.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 0800 UTC Remarks: Messages Contr: (MS)
8186.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 0800 UTC Remarks: Brief Message Contr: (GS)
8186.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 1000 UTC Remarks: Messages Contr: (MS)
8186.0	V02a	Mode: AM Date/time: Mon 7-12-2009, 0800 UTC

		Remarks: SSSL atencion: up late, caught late. Already passing msg. Contr: (wesltli)
8215	S06	Mode: AM Date/time: Fri 11-12-2009, 0710 UTC Remarks: 196 Contr: (HFD)
8423	E11	Mode: AM Date/time: Wed 9-12-2009, 0850 UTC Remarks: 534/00 Contr: (HFD)
8494.7	MX	Mode: CW Date/time: 5-12-2009, 2227 UTC Remarks: Beacon "D" Contr: (AB)
8494.7	MX	Mode: CW Date/time: 16-12-2009, 2132 UTC Remarks: Beacon "D" Contr: (AB)
8494.7	MX	Mode: CW Date/time: 23-12-2009, 1951 UTC Remarks: Beacon "D" Contr: (MPJ)
8494.7	MX	Mode: CW Date/time: 29-12-2009, 2145 UTC Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)
8494.8	MX	Mode: CW Date/time: 5-12-2009, 2227 UTC Remarks: Beacon "P" Contr: (AB)
8494.8	MX	Mode: CW Date/time: 16-12-2009, 2132 UTC Remarks: Beacon "P" Contr: (AB)
8494.8	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "P" Contr: (AB)
8494.9	MX	Mode: CW Date/time: 29-12-2009, 2145 UTC Remarks: S: Rus Navy Severomorsk RUS Contr: (WP3)
8495	MX	Mode: CW Date/time: 6-12-2009, 0837 UTC Remarks: Beacon "C" Contr: (AB)
8495	MX	Mode: CW Date/time: 16-12-2009, 2132 UTC Remarks: Beacon "C" Contr: (AB)
8495	MX	Mode: CW Date/time: 21-12-2009, 0641 UTC Remarks: Beacon "C" Contr: (TJ)
8495	MX	Mode: CW Date/time: 23-12-2009, 1951 UTC Remarks: Beacon "C" Contr: (MPJ)
8495.1	MX	Mode: CW Date/time: 5-12-2009, 2227 UTC Remarks: Beacon "A" Contr: (AB)
8495.1	MX	Mode: CW Date/time: 23-12-2009, 1951 UTC Remarks: Beacon "A" Contr: (MPJ)
8495.1	MX	Mode: CW Date/time: 29-12-2009, 2145 UTC Remarks: A: Rus Navy Astrachan RUS Contr: (WP3)
8805	E10	Mode: AM Date/time: 1-12-2009, 1523 UTC Remarks: ART2 on at 15:23z no TX at 15:30z Contr: (XSH)
8805	E10	Mode: AM Date/time: Fri 11-12-2009, 1300 UTC Remarks: PCD2 Contr: (FN)
9036.0	V02a	Mode: AM Date/time: Wed 16-12-2009, 0900 UTC Remarks: SS/YL Atencion 61632 71352 53811 Up early @ 0858 w/recipients only & carrier Contr: (TLA)
9040.0	V02a	Mode: AM Date/time: Wed 2-12-2009, 0900 UTC Remarks: SSSL atencion: 70232 25021 20821 strong, clear signal Contr: (wesltli)
9040.0	V02a	Mode: AM Date/time: Wed 9-12-2009, 0900 UTC Remarks: SSSL atencion: 43341 11372 28012 Contr:

(wesltli)

9040.0	V02a	Mode: AM Date/time: Wed 9-12-2009, 0900 UTC Remarks: A 43341 11372 28012 (YL/SS) Contr: (MS)
9040.0	V02a	Mode: AM Date/time: Wed 30-12-2009, 0900 UTC Remarks: SSYL: Up late, caught late. Weak signal. Contr: (wesltli)
9040.0	V02a	Mode: AM Date/time: Wed 30-12-2009, 1000 UTC Remarks: SSYL atencion: 25632 84672 25672 Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Wed 2-12-2009, 0800 UTC Remarks: 5f cut nums: 55871 71061 88681 weak and fading. Contr: (wesltli)
9063.0	M08a	Mode: AM Date/time: Wed 2-12-2009, 0800 UTC Remarks: In Progress//S80M//Brooklyn Contr: (GS)
9063.0	M08a	Mode: MCW Date/time: Fri 4-12-2009, 0800 UTC Remarks: 5f cut nums: 83941 41412 24482 Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Mon 7-12-2009, 0900 UTC Remarks: 5f cut nums: up late, caught late. Already passing msg. Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Wed 9-12-2009, 0800 UTC Remarks: 14521 32712 70781 Contr: (MS)
9063.0	M08a	Mode: AM Date/time: Wed 9-12-2009, 0800 UTC Remarks: In Progress Contr: (GS)
9063.0	M08a	Mode: MCW Date/time: Wed 9-12-2009, 0800 UTC Remarks: 5f cut nums: 14521 32712 70781 strong signal Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Fri 11-12-2009, 0800 UTC Remarks: 14511 24612 48382 strong signal Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Wed 16-12-2009, 0800 UTC Remarks: 5f cut nums: caught late. Good signal. Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Fri 18-12-2009, 0800 UTC Remarks: 43232 20681 20031 Very good signal. Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Wed 23-12-2009, 0800 UTC Remarks: 5f cut nums: 24152 54302 48031 Very strong sig. Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Fri 25-12-2009, 0800 UTC Remarks: 5f cut nums: 34411 35401 58111 Good sig. Contr: (wesltli)
9063.0	M08a	Mode: MCW Date/time: Wed 30-12-2009, 0800 UTC Remarks: 5f cut nums: 85222 28512 20002 Good signal. Contr: (wesltli)
9063.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 0900 UTC Remarks: Messages Contr: (MS)
9063.0	SK01	Mode: RDFT Date/time: Mon 14-12-2009, 0900 UTC Remarks: Weak fading RDFT Contr: (TLA)
9063.0	V02a	Mode: AM Date/time: Wed 16-12-2009, 1000 UTC

		Remarks: SS/YL Atencion 61632 71352 53811 Up early @ 0958 w/recipients only & carrier Contr: (TLA)
9076	X06	Mode: AM Date/time: 14-12-2009, 1546 UTC Remarks: Mazielka. Sequence: 215346 Contr: (XSH)
9112.0	M08a	Mode: MCW Date/time: Fri 11-12-2009, 1000 UTC Remarks: 87212 36071 83551 weak signal Contr: (wesltli)
9112.0	M08a	Mode: MCW Date/time: Sun 13-12-2009, 1000 UTC Remarks: 00282 00282 27301 (Note dual use of identifier.) Contr: (MS)
9112.0	M08a	Mode: MCW Date/time: Fri 18-12-2009, 1000 UTC Remarks: 78511 37991 43051 Very good signal. Contr: (wesltli)
9112.0	M08a	Mode: MCW Date/time: Sun 20-12-2009, 1000 UTC Remarks: 5f cut nums: up late, already in progress. Good sig. Contr: (wesltli)
9112.0	M08a	Mode: MCW Date/time: Mon 21-12-2009, 1000 UTC Remarks: 63651 78412 32421 Contr: (MS)
9112.0	M08a	Mode: MCW Date/time: Mon 21-12-2009, 1000 UTC Remarks: 5f cut nums: 63651 78412 32421 very weak Contr: (wesltli)
9112.0	M08a	Mode: MCW Date/time: Sun 27-12-2009, 1000 UTC Remarks: 5f cut nums: 42312 11631 48582 Unusually weak for this sked. Contr: (wesltli)
9112.0	M08a	Mode: MCW Date/time: Mon 28-12-2009, 1000 UTC Remarks: 5f cut nums: 46502 23212 40221 Good sig. Contr: (wesltli)
9130	E10	Mode: AM Date/time: Thu 3-12-2009, 0930 UTC Remarks: EZI2 Contr: (FN)
9130	E10	Mode: AM Date/time: Mon 14-12-2009, 0930 UTC Remarks: EZI gc 13 txt GMOBD Contr: (FN)
9153.0	M08a	Mode: MCW Date/time: Wed 2-12-2009, 0700 UTC Remarks: 5f cut nums: 55871 71061 88681 very strong, clear signal. Contr: (wesltli)
9153.0	M08a	Mode: MCW Date/time: Fri 4-12-2009, 0700 UTC Remarks: 5f cut nums: 83941 41412 24482 Contr: (wesltli)
9153.0	M08a	Mode: AM Date/time: Wed 9-12-2009, 0700 UTC Remarks: In Progress Contr: (GS)
9153.0	M08a	Mode: MCW Date/time: Wed 9-12-2009, 0700 UTC Remarks: 5f cut nums: up late, already in progress. Contr: (wesltli)
9153.0	M08a	Mode: MCW Date/time: Wed 9-12-2009, 0700 UTC Remarks: 14521 32712 70781 Contr: (MS)
9153.0	M08a	Mode: MCW Date/time: Fri 11-12-2009, 0700 UTC Remarks: 14511 24612 48382 strong signal Contr: (wesltli)
9153.0	M08a	Mode: MCW Date/time: Wed 16-12-2009, 0700 UTC Remarks: 5f cut nums: caught late. Good signal. Contr: (wesltli)
9153.0	M08a	Mode: AM Date/time: Fri 18-12-2009, 0700 UTC

		Remarks: In Progress Contr: (GS)
9153.0	M08a	Mode: MCW Date/time: Fri 18-12-2009, 0700 UTC Remarks: 5f cut nums: 43232 20681 20031 Very good signal. Contr: (wesltli)
9153.0	M08a	Mode: MCW Date/time: Fri 25-12-2009, 0700 UTC Remarks: 5f cut nums: 34411 Up late, caught preparing 1st msg. Contr: (wesltli)
9153.0	M08a	Mode: MCW Date/time: Wed 30-12-2009, 0700 UTC Remarks: 5f cut nums: 85222 285... sent an sk01 file at start then calls. Contr: (wesltli)
9202	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: YHF2 Contr: (FN)
9202	E10	Mode: AM Date/time: Fri 11-12-2009, 1330 UTC Remarks: YHF2 Contr: (FN)
9240.0	SK01	Mode: RDFT Date/time: Sat 5-12-2009, 1000 UTC Remarks: Expected V2a sked here Contr: (MS)
9240.0	V02a	Mode: AM Date/time: Wed 2-12-2009, 1000 UTC Remarks: SSSL atencion: 70232 25021 20821 weak Contr: (wesltli)
9240.0	V02a	Mode: AM Date/time: Wed 2-12-2009, 1000 UTC Remarks: A 70232 25021 20821 (YL/SS) Contr: (MS)
9240.0	V02a	Mode: AM Date/time: Wed 9-12-2009, 1000 UTC Remarks: A 43341 11372 28012 (YL/SS) Contr: (MS)
9240.0	V02a	Mode: AM Date/time: Wed 9-12-2009, 1000 UTC Remarks: SSSL atencion: 43341 11372 28012 Contr: (wesltli)
9240.0	V02a	Mode: AM Date/time: Wed 23-12-2009, 0900 UTC Remarks: SSSL atencion: 31182 14742 71772 Very strong sig. Contr: (wesltli)
9240.0	V02a	Mode: AM Date/time: Wed 23-12-2009, 1000 UTC Remarks: SSSL atencion: 31182 14742 71772 Good sig. Contr: (wesltli)
9240.0	V02a	Mode: AM Date/time: Sat 26-12-2009, 1000 UTC Remarks: SSSL atencion: 64152 14602 32201 good signal. Contr: (wesltli)
9288	X06	Mode: AM Date/time: 2-12-2009, 0830 UTC Remarks: Mazielka. Sequence: 356412 Contr: (XSH)
9820	E17z	Mode: USB Date/time: 3-12-2009, 0810 UTC Remarks: 674 803 5 54546 66945 40525 88695 78526 Contr: (XSH)
9923	X06	Mode: AM Date/time: 31-12-2009, 0756 UTC Remarks: Mazielka. Sequence: 463125 Contr: (XSH)
9950	S06	Mode: AM Date/time: Thu 3-12-2009, 1210 UTC Remarks: 425-850/7=07738 Contr: (HFD)
10147	XPA	Mode: AM Date/time: Tue 1-12-2009, 0720 UTC Remarks: msg Contr: (HFD)
10172	M42	Mode: Baudot 200/500 Date/time: 26-12-2009, 1245 UTC Remarks: Russian Gov/Intel. Marker "00000++++++"

		Contr: (ALF)
10193	X06	Mode: AM Date/time: 10-12-2009, 0945 UTC Remarks: Mazielka. Sequence: 164532 Contr: (XSH)
10193	X06	Mode: AM Date/time: 15-12-2009, 0752 UTC Remarks: Mazielka. Sequence: 164523 Contr: (XSH)
10214	X06	Mode: AM Date/time: 10-12-2009, 1513 UTC Remarks: Mazielka. Sequence: 263145 Contr: (XSH)
10240	E17	Mode: USB Date/time: 19-12-2009, 1515 UTC Remarks: 274 (rptd) 275 275 20 20 26318 26318 74616 Contr: (linkz)
10372	X06	Mode: AM Date/time: 14-12-2009, 0942 UTC Remarks: Mazielka. Sequence: 431625 Contr: (XSH)
10417	M12	Mode: CW Date/time: 19-12-2009, 1340 UTC Remarks: 214 214 214 1 180 57 180 57 5FG msg ending Contr: (PPA)
10432	M08a	Mode: CW Date/time: 13-12-2009, 0906 UTC Remarks: Cuban DGI. 5LG msg cut numbers Contr: (PPA)
10432.0	M08a	Mode: MCW Date/time: Sun 6-12-2009, 0900 UTC Remarks: 5f cut nums: 53621 73552 57642 Contr: (wesltli)
10432.0	M08a	Mode: MCW Date/time: Sun 20-12-2009, 0900 UTC Remarks: 5f cut nums: Weak and fading. Contr: (wesltli)
10432.0	M08a	Mode: MCW Date/time: Mon 21-12-2009, 0900 UTC Remarks: 5f cut nums: 63651 78412 32421 very weak Contr: (wesltli)
10432.0	M08a	Mode: MCW Date/time: Sun 27-12-2009, 0900 UTC Remarks: 5f cut nums: 42312 11631 48582 good signal. Contr: (wesltli)
10468	E10	Mode: AM Date/time: Fri 11-12-2009, 1330 UTC Remarks: YHF2 Contr: (FN)
10480	S06	Mode: USB Date/time: 31-12-2009, 1013 UTC Remarks: YL/RR 895 895 895 000000 Contr: (linkz)
10516.5	M42	Mode: CROWD36 Date/time: 4-12-2009, 0857 UTC Remarks: Russian Gov/Intel. "RNCTLHPOGMV DCWOX" Contr: (BCI)
10580	S06	Mode: AM Date/time: Thu 3-12-2009, 1200 UTC Remarks: 425 Contr: (HFD)
10648	E10	Mode: AM Date/time: Wed 2-12-2009, 1331 UTC Remarks: YHF2 Contr: (FN)
10653	X06	Mode: AM Date/time: 11-12-2009, 0856 UTC Remarks: Mazielka. Sequence: 356412 Contr: (XSH)
10714.0	M08a	Mode: CW Date/time: Wed 9-12-2009, 1300 UTC Remarks: 05361 50061 03861 Contr: (MS)
10714.0	M08a	Mode: CW Date/time: Wed 16-12-2009, 1300 UTC Remarks: 653.1 (Stn up late, very weak signal. In progress.) Contr: (MS)
10714.0	M08a	Mode: CW Date/time: Wed 30-12-2009, 1400 UTC Remarks: 1.582 37162 (Found this sked late. Already in progress. Contr: (MS)

10715.0	SK01	Mode: RDFT Date/time: Tue 1-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Wed 2-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Thu 3-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Mon 7-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Tue 8-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Fri 11-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Sat 12-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Sun 13-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Tue 15-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Wed 16-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Thu 17-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Sat 19-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Sun 20-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Wed 23-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Wed 23-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Fri 25-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Sat 26-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Sun 27-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10715.0	SK01	Mode: RDFT Date/time: Wed 30-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
10857.0	M08a	Mode: CW Date/time: Wed 2-12-2009, 1400 UTC Remarks: 71482 13172 50212 Contr: (MS)
10857.0	M08a	Mode: CW Date/time: Wed 9-12-2009, 1400 UTC Remarks: 05361 50061 03861 Contr: (MS)
10857.0	M08a	Mode: CW Date/time: Wed 23-12-2009, 1400 UTC Remarks: 5f cut nums: 21581 34722 67531 Contr: (wesltli)

10857.0	M08a	Mode: CW Date/time: Wed 30-12-2009, 1400 UTC Remarks: 70172 14042 56871 Contr: (MS)
10857.0	M08a	Mode: CW Date/time: Wed 30-12-2009, 1400 UTC Remarks: 5f cut nums: 70172 14042 52871 weak signal. Contr: (wesltli)
10871.7	MX	Mode: CW Date/time: 5-12-2009, 0737 UTC Remarks: Beacon "D" Contr: (AB)
10871.7	MX	Mode: CW Date/time: 19-12-2009, 1120 UTC Remarks: Beacon "D" Contr: (TJ)
10871.7	MX	Mode: CW Date/time: 21-12-2009, 0623 UTC Remarks: Beacon "D" Contr: (TJ)
10871.7	MX	Mode: CW Date/time: 30-12-2009, 1230 UTC Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)
10871.7	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "D" Contr: (AB)
10871.8	MX	Mode: CW Date/time: 6-12-2009, 0837 UTC Remarks: Beacon "P" Contr: (AB)
10871.8	MX	Mode: CW Date/time: 24-12-2009, 1209 UTC Remarks: Beacon "K" Contr: (MSM)
10871.9	MX	Mode: CW Date/time: 5-12-2009, 0737 UTC Remarks: Beacon "S" Contr: (AB)
10871.9	MX	Mode: CW Date/time: 19-12-2009, 1120 UTC Remarks: Beacon "S" Contr: (TJ)
10871.9	MX	Mode: CW Date/time: 30-12-2009, 1230 UTC Remarks: S: Rus Navy Severomorsk RUS Contr: (WP3)
10872	MX	Mode: CW Date/time: 19-12-2009, 1120 UTC Remarks: Beacon "C" Contr: (TJ)
10872	MX	Mode: CW Date/time: 24-12-2009, 1209 UTC Remarks: Beacon "C" Contr: (MSM)
10872	MX	Mode: CW Date/time: 30-12-2009, 1230 UTC Remarks: C: Rus Navy Moscow RUS Contr: (WP3)
10872.1	MX	Mode: CW Date/time: 30-12-2009, 1230 UTC Remarks: A: Rus Navy Astrachan RUS Contr: (WP3)
10872.1	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "A" Contr: (AB)
11117	M12	Mode: CW Date/time: 19-12-2009, 1320 UTC Remarks: 214 214 214 1 180 57 180 57 5FG msg ending Contr: (PPA)
11170	E17z	Mode: USB Date/time: 3-12-2009, 0800 UTC Remarks: 674 803 5 54546 66945 40525 88695 78526 Contr: (XSH)
11430	V13	Mode: USB Date/time: 3-12-2009, 1219 UTC Remarks: New Star Radio. 4LGs Contr: (EW)
11435.0	M08a	Mode: MCW Date/time: Sat 12-12-2009, 0600 UTC Remarks: 5f cut nums: Up late, already passing msg. Probable error. Contr: (wesltli)
11435.0	SK01	Mode: RDFT Date/time: Tue 1-12-2009, 1700 UTC Remarks: Messages Contr: (MS)

11435.0	SK01	Mode: RDFT Date/time: Wed 2-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Fri 4-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Sun 6-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Mon 7-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Tue 8-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 0600 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Fri 11-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Sat 12-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Tue 15-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Thu 17-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Fri 18-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Sun 20-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Mon 21-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Tue 22-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: AM Date/time: Wed 23-12-2009, 0600 UTC Remarks: solid tone, seems to be an RDFT transmission Contr: (ANY)
11435.0	SK01	Mode: RDFT Date/time: Wed 23-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: AM Date/time: Fri 25-12-2009, 0600 UTC Remarks: Carrier up on time, but no xmsn by 0630z. This sked is usually not here Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Fri 25-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Sun 27-12-2009, 1700 UTC Remarks: Messages Contr: (MS)
11435.0	SK01	Mode: RDFT Date/time: Wed 30-12-2009, 1700 UTC Remarks: Radio Habana was here at 1600z. It finally went down and SK01 carrier came up Contr: (MS)
11525	X06	Mode: AM Date/time: 18-12-2009, 1436 UTC

11525	X06	Remarks: Mazielka. Sequence: 156234 Contr: (XSH) Mode: AM Date/time: 18-12-2009, 1508 UTC Remarks: Mazielka. Sequence: 156234 Contr: (XSH)
11532.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 0630 UTC Remarks: Messages Contr: (MS)
11532.0	SK01	Mode: AM Date/time: Fri 25-12-2009, 0630 UTC Remarks: Carrier up on time, but no xmsn by 0700z. This sked is usually not here Contr: (MS)
11780	S06	Mode: AM Date/time: Fri 11-12-2009, 0930 UTC Remarks: 516-809/7=80571 Contr: (HFD)
12100	X06	Mode: AM Date/time: 9-12-2009, 1213 UTC Remarks: Mazielka. Sequence: 123456 Contr: (XSH)
12116.0	M08a	Mode: CW Date/time: Thu 3-12-2009, 1300 UTC Remarks: 42002 13081 50121 Contr: (MS)
12116.0	M08a	Mode: CW Date/time: Mon 21-12-2009, 1300 UTC Remarks: 58102 16521 15171 Contr: (MS)
12116.0	M08a	Mode: CW Date/time: Wed 23-12-2009, 1300 UTC Remarks: 60282 57762 22251 Contr: (MS)
12134.0	M08a	Mode: CW Date/time: Thu 3-12-2009, 1400 UTC Remarks: 42002 13081 50121 Contr: (MS)
12134.0	M08a	Mode: AM Date/time: Mon 7-12-2009, 1400 UTC Remarks: In Progress Contr: (GS)
12134.0	M08a	Mode: CW Date/time: Mon 14-12-2009, 1400 UTC Remarks: 04212 25762 45251 Contr: (MS)
12134.0	M08a	Mode: CW Date/time: Thu 24-12-2009, 1400 UTC Remarks: 5f cut nums: 68171 50042 27762 Good signal with some fading. Contr: (wesltli)
12134.0	M08a	Mode: CW Date/time: Mon 28-12-2009, 1400 UTC Remarks: 5f cut nums: 60261 48252 21042 weak sig. Contr: (wesltli)
12147	XPA	Mode: AM Date/time: Tue 1-12-2009, 0740 UTC Remarks: msg Contr: (HFD)
12152	X06	Mode: AM Date/time: 2-12-2009, 0857 UTC Remarks: Mazielka. Sequence: 432516 Contr: (XSH)
12155	M42	Mode: CROWD36 Date/time: 2-12-2009, 0729 UTC Remarks: Russian Gov/Intel. "RNCTLHPOGMV DCWOX" Contr: (BCI)
12157	X06	Mode: AM Date/time: 1-12-2009, 0858 UTC Remarks: Mazielka. Sequence: 165423 Contr: (XSH)
12180.0	V02a	Mode: USB Date/time: Thu 3-12-2009, 1900 UTC Remarks: In Progress//Weak Signal Contr: (GS)
12213	X06	Mode: AM Date/time: 4-12-2009, 0957 UTC Remarks: Mazielka. Sequence: 361245 //12215 kHz Contr: (XSH)
12214.0	M08a	Mode: CW Date/time: Tue 1-12-2009, 1300 UTC Remarks: 02382 66652 (I came into sked late. Missed first callup.) Contr: (MS)
12214.0	M08a	Mode: CW Date/time: Tue 15-12-2009, 1300 UTC

		Remarks: 55001 (Came in late, missed two identifiers.) Contr: (MS)
12215	X06	Mode: AM Date/time: 4-12-2009, 0957 UTC Remarks: Mazielka. Sequence: 361245 //12123 kHz Contr: (XSH)
12219	M12	Mode: CW Date/time: Wed 16-12-2009, 0849 UTC Remarks: ip, ends 0856z. Same frequency used 2007 around xmas Contr: (FN)
12224	X06	Mode: AM Date/time: 25-12-2009, 1001 UTC Remarks: Mazielka. Sequence: 463125 Contr: (XSH)
12224	X06	Mode: AM Date/time: 31-12-2009, 0740 UTC Remarks: Mazielka. Sequence: 463125 Contr: (XSH)
12570	S06	Mode: AM Date/time: Fri 11-12-2009, 0940 UTC Remarks: 516 Contr: (HFD)
13374.0	M08a	Mode: CW Date/time: Tue 1-12-2009, 1400 UTC Remarks: 02382 66652 (I came into sked late. Missed first callup again.) Contr: (MS)
13374.0	M08a	Mode: CW Date/time: Fri 11-12-2009, 1400 UTC Remarks: (Too weak for copy.) Contr: (MS)
13374.0	M08a	Mode: CW Date/time: Fri 25-12-2009, 1400 UTC Remarks: 74231 46121 (Early start. Station already in progress.) Contr: (MS)
13379.0	V02a	Mode: AM Date/time: Thu 3-12-2009, 2000 UTC Remarks: A 12522 84742 51612 (YL/SS) Contr: (MS)
13380.0	M08a	Mode: MCW Date/time: Tue 1-12-2009, 2000 UTC Remarks: 32761 17662 20631 (Expected V2a here.) Contr: (MS)
13380.0	V02a	Mode: USB Date/time: Tue 8-12-2009, 2000 UTC Remarks: In Progress Contr: (GS)
13380.0	V02a	Mode: AM Date/time: Tue 15-12-2009, 2000 UTC Remarks: SSYL atencion: 31522 55302 50021 weak signal. Contr: (wesltli)
13380.0	V02a	Mode: AM Date/time: Thu 17-12-2009, 2000 UTC Remarks: SSYL: weak and buried in noise. Contr:(wesltli)
13380.0	V02a	Mode: AM Date/time: Thu 24-12-2009, 2000 UTC Remarks: SSYL: Faded in after calls were completed. Contr: (wesltli)
13419	X06	Mode: AM Date/time: 9-12-2009, 0905 UTC Remarks: Mazielka. Sequence: 465132 Contr: (XSH)
13488	X06	Mode: AM Date/time: 3-12-2009, 0819 UTC Remarks: Mazielka. Sequence: 162543 38sec long Contr: (XSH)
13517	X06	Mode: AM Date/time: 14-12-2009, 1012 UTC Remarks: Mazielka. Sequence: 463125 Contr: (XSH)
13517	X06	Mode: AM Date/time: 31-12-2009, 0750 UTC Remarks: Mazielka. Sequence: 463125 Contr: (XSH)
13527.7	MX	Mode: CW Date/time: 5-12-2009, 0737 UTC Remarks: Beacon "D" Contr: (AB)

13527.7	MX	Mode: CW Date/time: 30-12-2009, 1225 UTC Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)
13527.7	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "D" Contr: (AB)
13528	MX	Mode: CW Date/time: 5-12-2009, 0737 UTC Remarks: Beacon "C" Contr: (AB)
13528	MX	Mode: CW Date/time: 30-12-2009, 1225 UTC Remarks: C: Rus Navy Moscow RUS Contr: (WP3)
13528	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "C" Contr: (AB)
13528.8	MX	Mode: CW Date/time: 6-12-2009, 0837 UTC Remarks: Beacon "P" Contr: (AB)
13533	E10	Mode: AM Date/time: 1-12-2009, 1230 UTC Remarks: EZI2 6dB over S9 very strong for E10 in uk Contr: (XSH)
13918	M42	Mode: CROWD36 Date/time: 22-12-2009, 0834 UTC Remarks: Russian Gov/Intel. Contr: (Imp)
14400.5	M42	Mode: CROWD36 Date/time: 4-12-2009, 0938 UTC Remarks: Russian Gov/Intel. Contr: (EW)
14445	M42	Mode: CROWD36 Date/time: 9-12-2009, 1000 UTC Remarks: Russian Gov/Intel Contr: (XSH)
14560	X06	Mode: AM Date/time: 17-12-2009, 1052 UTC Remarks: Mazielka. Sequence: 215346 Contr: (XSH)
14812	X06	Mode: AM Date/time: 1-12-2009, 0935 UTC Remarks: Mazielka. Sequence: 246531 on for 43sec Contr: (XSH)
14812	X06	Mode: AM Date/time: 15-12-2009, 0927 UTC Remarks: Mazielka. Sequence: 246531 Contr: (XSH)
14824	X06	Mode: AM Date/time: 4-12-2009, 0811 UTC Remarks: Mazielka. Sequence: 625413 Contr: (XSH)
14837.5	M42	Mode: CROWD36 Date/time: 4-12-2009, 0737 UTC Remarks: Russian Gov. Preamble starting with "11177 Contr: (BCI)
14861	X06	Mode: AM Date/time: 8-12-2009, 0842 UTC Remarks: Mazielka. Sequence: 542136 Contr: (XSH)
14863	X06	Mode: AM Date/time: 11-12-2009, 0853 UTC Remarks: Mazielka. Sequence: 615243 Contr: (XSH)
14871	X06	Mode: AM Date/time: 1-12-2009, 1013 UTC Remarks: Mazielka. Sequence: 156234 Contr: (XSH)
14950	X06	Mode: AM Date/time: 17-12-2009, 1237 UTC Remarks: Mazielka. Sequence: 352416 Contr: (XSH)
15656.5	M42	Mode: CROWD36 Date/time: 8-12-2009, 0755 UTC Remarks: Russian Gov/Intel. Contr: (BCI)
15799.5	M42	Mode: CROWD36 Date/time: 3-12-2009, 0656 UTC Remarks: Russian Gov/Intel Contr: (EW)
16025	X06	Mode: AM Date/time: 1-12-2009, 1000 UTC Remarks: Mazielka. Sequence: 156234 Contr: (XSH)
16025	X06	Mode: AM Date/time: 8-12-2009, 0918 UTC

16073	M42	Remarks: Mazielka. Sequence: 156234 Contr: (XSH) Mode: Baudot 200/500 Date/time: 24-12-2009, 0720 UTC Remarks: Russian Gov/Intel. "34546265725991679 =815 Contr: (BCI)
16116	X06	Mode: AM Date/time: 9-12-2009, 0944 UTC Remarks: Mazielka. Sequence: 134265 Contr: (XSH)
16135	M42	Mode: CROWD36 Date/time: 22-12-2009, 0935 UTC Remarks: Russian Gov/Intel. Contr: (Imp)
16178.0	SK01	Mode: AM Date/time: Tue 1-12-2009, 1600 UTC Remarks: Carrier up, but no xmsn by 1615z Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Wed 2-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Thu 3-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Mon 7-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Tue 8-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Wed 9-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Thu 10-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Fri 11-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: AM Date/time: Tue 15-12-2009, 1600 UTC Remarks: Carrier up on time, but no xmsn by 1640z Contr: (MS)
16178.0	SK01	Mode: AM Date/time: Wed 16-12-2009, 1600 UTC Remarks: Carrier present, but no xmsn by 1640z Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Thu 17-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Tue 22-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Wed 23-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Fri 25-12-2009, 1600 UTC Remarks: Messages Contr: (MS)
16178.0	SK01	Mode: RDFT Date/time: Wed 30-12-2009, 1617 UTC Remarks: It finally went down and SK01 carrier came up Contr: (MS)
16200.8	M42	Mode: CROWD36 Date/time: 4-12-2009, 0742 UTC Remarks: Russian Gov/Intel. "RNCTLHPOGMV DCWOX" Contr: (BCI)
16276	M42	Mode: CROWD36 Date/time: 9-12-2009, 0910 UTC Remarks: Russian Gov/Intel Contr: (Imp)
16276	M42	Mode: CROWD36 Date/time: 22-12-2009, 0910 UTC Remarks: Russian Gov/Intel. Contr: (Imp)
16281	M42	Mode: CROWD36 Date/time: 14-12-2009, 0905 UTC Remarks: Russian Gov/Intel. Contr: (Imp)

16281	M42	Mode: CROWD36 Date/time: 22-12-2009, 0905 UTC Remarks: Russian Gov/Intel. Contr: (Imp)
16331.7	MX	Mode: CW Date/time: 2-12-2009, 0920 UTC Remarks: SLB cluster, -D- Sevastopol, UKR Contr: (Imp)
16331.7	MX	Mode: CW Date/time: 5-12-2009, 0737 UTC Remarks: Beacon "D" Contr: (AB)
16331.7	MX	Mode: CW Date/time: 17-12-2009, 1114 UTC Remarks: Cluster beacon "D" Contr: (TJ)
16331.7	MX	Mode: CW Date/time: 24-12-2009, 1019 UTC Remarks: Beacon "D" Contr: (TJ)
16331.7	MX	Mode: CW Date/time: 24-12-2009, 1211 UTC Remarks: Beacon "D" Contr: (MPJ)
16331.7	MX	Mode: CW Date/time: 30-12-2009, 1215 UTC Remarks: D: Rus Navy Sevastopol UKR Contr: (WP3)
16331.7	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "D" Contr: (AB)
16331.7	MX	Mode: CW Date/time: 31-12-2009, 1050 UTC Remarks: Cluster Beacon "D" Contr: (MPJ)
16331.8	MX	Mode: CW Date/time: 31-12-2009, 1050 UTC Remarks: Cluster Beacon "P" Contr: (MPJ)
16331.9	MX	Mode: CW Date/time: 2-12-2009, 0920 UTC Remarks: SLB cluster, -S- Severomorsk, RUS Contr: (Imp)
16331.9	MX	Mode: CW Date/time: 6-12-2009, 0837 UTC Remarks: Beacon "S" Contr: (AB)
16331.9	MX	Mode: CW Date/time: 30-12-2009, 1240 UTC Remarks: Beacon "S" Contr: (AB)
16332	MX	Mode: CW Date/time: 5-12-2009, 0737 UTC Remarks: Beacon "C" Contr: (AB)
16332	MX	Mode: CW Date/time: 6-12-2009, 1116 UTC Remarks: Beacon "C" Contr: (PPA)
16332	MX	Mode: CW Date/time: 24-12-2009, 1019 UTC Remarks: Beacon "C" Contr: (TJ)
16332	MX	Mode: CW Date/time: 24-12-2009, 1211 UTC Remarks: Beacon "C" Contr: (MPJ)
16332	MX	Mode: CW Date/time: 30-12-2009, 1215 UTC Remarks: C: Rus Navy Moscow RUS Contr: (WP3)
16332.0	MX	Mode: CW Date/time: 31-12-2009, 1050 UTC Remarks: Cluster Beacon "C" Contr: (MPJ)
16332.1	MX	Mode: CW Date/time: 2-12-2009, 0920 UTC Remarks: SLB cluster, -A- Astrakhan, RUS Contr: (Imp)
16332.1	MX	Mode: CW Date/time: 24-12-2009, 1019 UTC Remarks: Beacon "A" Contr: (TJ)
16332.1	MX	Mode: CW Date/time: 31-12-2009, 1050 UTC Remarks: Cluster Beacon "A" Contr: (MPJ)
16350	M42	Mode: Baudot 75/500 Date/time: 10-12-2009, 0848 UTC Remarks: Russian Gov/Intel. Traffic + op-chat in CW Contr: (BCI)
17463	X06	Mode: AM Date/time: 25-12-2009, 1013 UTC

18050 M42 Remarks: Mazielka. Sequence: 234561 Contr: (linkz)
Mode: CROWD36 Date/time: 2-12-2009, 0938 UTC
Remarks: Russian Gov/Intel Contr: (WP3)
18183 M42 Mode: CROWD36 Date/time: 2-12-2009, 0803 UTC
Remarks: Russian Gov/Intel Contr: (WP3)

* CONTRIBUTORS *

AB Ary Boender, Netherlands
ALF Alf, Germany
ANY Alex, NY, USA
AtB Attu Bosch, AK, USA
BCI Bruno Casula, Italy
EW Eddy Waters, Australia
FN Fritz Nusser, Switzerland
GS Gary Seven, NY, USA
HFD Hans-Friedrich Dumrese, Germany
IB Igor Buhtiyarov, Russia
Imp Impaler
JNY Juggler, NY, USA
Jon-FL Jon, FL, USA
linkz Linkz, S.E. France
MCO Mike Chace-Ortiz, PA, USA
MPJ Jim, SW England
MS Mark Slaten, MI, USA
MSM Maciej, Poland
MUK Mikesndbs, UK
PPA Peter Poelstra, Netherlands
RCh Robert Church, NY, USA
RP3 Ron, MD, USA
SB2 SpaceBiscuit, OH, USA
TJ Trond Jacobsen, Norway
TLA Trooper, Los Angeles, CA, USA
TS Tom Severt, KS, USA
TT Taylor, Toronto, Canada
W00ESE W0ESE, Missouri, USA
Westli Westli, CA, USA
WP3 Wolfgang Palmberger
WR Wisconsin Railfain, OH, USA

	Article	Edition
<hr/>		
General	Intelligence profile: Canada	141
	Intelligence profile: Italy	142
	Intelligence profile: Lebanon	143
	Intelligence profile: Nepal	137
	Intelligence profile: Romania	144
	Intelligence profile: Russia	145
	Intelligence profile: Somalia	136
	New designator: M94	140
	Numbers database update	147
<hr/>		
Morse stations	Chinese numbers station report:	
	- M81, M87, M89, MC01, MC02, MV09, MV26	145
	Chinese numbers stations update	147
	M03: message	136
	M08a: odd start	147
	M12: messages	144
	M12: messages	147
	M14: message	140
	M14: messages	144
	M18	143
	M21	142
	M21	143
	M21	145
	M21	146
	M21 + variant	144
	M21: messages	136
	M21: messages	138
	M21: messages	139
	M21: messages	140
	M21: messages	141
	M21: messages	147
	M22	136
	M22	141
	M22	146
	M23	144
	M23 report	139
	M24: messages	136
	M41	146
	M41: messages	136
	M41: messages	138
	M41: messages	139
	M41: messages	147
	M45	140
	M51	136

M51	145
M51	146
M89: messages	136
M89: messages	138
M89: messages	139
M89: messages	140
M89: messages	141
M89: messages	142
M89: messages	143
M89: messages	144
M89: messages	145
M89: messages	146
M89: messages	147
M94	141
M94	142
M94 (see Korean Intelligence)	137
M94 (see Korean Intelligence)	138
M94 (see unids)	136
M94 (see V24's morse sister)	139
M94 report	140
M94: schedules	144
MX report	136
MX report	138
MX report	139
MX report	140
MX report	141
MX report	142
MX report	143
MX report	144
MX report	145
MX report	146
MX report	147

Various modes	M42 report	136
	M42 report	137
	M42 report	138
	M42 report	139
	M42 report	140
	M42 report	141
	M42 report	142
	M42 report	143
	M42 report	144
	M42 report	145
	M42 report	146
	M42 report	147
	M42/X06 report 1980-2009	147
	S28	139

S32 on unusual frequencies	146
SK01	137
SK01	144
SK01: logs	141
SK01: messages	145
X06 report	136
X06 report	137
X06 report	138
X06 report	139
X06 report	140
X06 report	141
X06 report	142
X06 report	143
X06 report	144
X06 report	145
X06 report	146
X06 report	147
XC the Crackle	146
XSL decoder	138

Voice stations	Chinese numbers station report:	
	- V09, V16, V22, V25, V26, V27	145
	Chinese numbers stations update	147
	E03a	144
	E03a	145
	E03a: new schedules	146
	E03a: off the air???	147
	E03a: still alive	136
	E06: message	138
	E06: messages	139
	E06: messages	144
	E07: messages	141
	E07: messages	142
	E10: 14000 kHz, HNCS, HNCS	146
	E10: ABC	137
	E10: ABC + HNC	143
	E10: HNCZ	140
	E10: TMS + ABC	138
	E11	139
	E11: message	138
	E11: messages	140
	E11: messages	143
	E11: messages	144
	E11a/b: messages	136
	E11a: messages	142
	E17z	143
	E25: message	138

E25: messages	140
E25: odd message	136
G06	144
G06: messages	140
G06: messages	145
G11	143
S06: messages	139
S06: messages	142
S06: messages	145
S11a	143
S11a: message	136
S11a: messages	139
S11b: message	138
S21	140
V02: report on Cuban spies	141
V13	136
V13	145
V21	144
V24	145
V24 report	139
V24: logs	136
V24: schedules	144
VC01: message	147

Logs	Logs	136
	Logs	137
	Logs	138
	Logs	139
	Logs	140
	Logs	141
	Logs	142
	Logs	143
	Logs	144
	Logs	145
	Logs	146
	Logs	147

Military stations	M32: Russian/Ukrainian military logs & info	136
	M32: Russian/Ukrainian military logs & info	137
	M32: Russian/Ukrainian military logs & info	138
	M32: Russian/Ukrainian military logs & info	139
	M32: Russian/Ukrainian military logs & info	140
	M32: Russian/Ukrainian military logs & info	141
	M32: Russian/Ukrainian military logs & info	142
	M32: Russian/Ukrainian military logs & info	143
	M32: Russian/Ukrainian military logs & info	144

M32: Russian/Ukrainian military logs & info	145
M32: Russian/Ukrainian military logs & info	146
M32: Russian/Ukrainian military logs & info	147

Utility Round-up	African report	141
	Clandestine Activity Survey 2009	147
	Driftnet beacons	136
	Driftnet beacons	137
	Driftnet beacons	139
	Driftnet beacons	143
	Driftnet beacons	144
	Driftnet beacons	146
	Driftnet beacons	147
	Italian pirate	136
	Italian pirate	139
	Italian pirate	142
	Jammers	145
	Korean Intelligence (now M94)	137
	Korean Intelligence (now M94)	138
	OL032: Czech intelligence??	147
	Pirate beacons	138
	Pirate beacons	139
	Pirate beacons	144
	Pirate beacons	145
	Satellite logs	137
	Satellite logs	138
	Taxi's	141
	Unid: (now M94)	136
	Unid: =50= (now M42)	136
	Unid: =50= (now M42)	137
	Unid: =50= (now M42)	138
	Unid: =50= (now M42)	138
	Unid: 10169 kHz CW	145
	Unid: 72727 net	137
	Unid: 7536 kHz CW c/s DG23	146
	Unid: 9457 kHz RTTY	144
	Unid: Chinese 17100 khz	136
	Unid: CIT	145
	Unid: CJM7 + 8EMQ	138
	Unid: CW on 5187 kHz	142
	Unid: CW on 7348, 8360, 8365 kHz	142
	Unid: MWKJ	137
	Unid: MWKJ	138
	Unid: MWKJ	144
	Unid: MWKJ	147
	Unid: numbers station	137
	Unid: numbers stations (Slavic)	143

Unid: P1BT	136
Unid: RBI	136
Unid: RDIR	147
Unid: RKOW	138
Unid: Russian station + Italian pirate on 6998.5 kHz	138
Unid: Russian stations: =50= and NXTB (now M42)	139
Unid: XXX	136
Unid stations on various frequencies:	
- VTID, MWKJ, 2CNP, W3GN, Z4GD, LDN3	146
US Navy MARS	140
V24's morse sister (now M94)	139

Portions of this newsletter may be used in electronic or printed hobby bulletins without prior approval so long as "Numbers & Oddities" is credited as the source. This newsletter may NOT be utilized, partly or wholly, in any other COMMERCIAL media format without the written permission of the Editor. Any breach of this may result in action under international copyright legislation.

Relevant mailing lists:

- Utility DXers Forum (utility and logs of numbers stations).
Go to <http://groups.yahoo.com/group/udxf/> and follow the instructions.
Website: <http://www.udxf.nl>
- Spooks (spooks related info and logs)
Go to the web interface to subscribe, fill in the form and follow the instructions that will be mailed to you.
<http://mailman.qth.net/mailman/listinfo/spooks>

-0-0-0-0-KONEC-0-0-0-0-